SIEMENS

MammoReport^{Plus}

SP

Installation Instructions

Installation of Software

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Table of Contents

1 Standard Software Installation 1-1

General Remarks . . . 1-1
Prerequisites . . . 1-1
Recommended Hardware . . . 1-2

2 Part A: Barco Installation 2-1

Check System Date and Time . . . 2-1
Automatic Installation using Ghost . . . 2-1
Check Monitor Order CRT . . . 2-2
Check Monitor Order TFT . . . 2-4
Checking Drive Assignments . . . 2-5
Changing the Keyboard Driver . . . 2-5
Restarting the System . . . 2-8

3 Part A: System Settings 3-1

Formatting Dynamic Disk Arrays . . . 3-1
Formatting and Assigning Extra Hard Disk (optional) . . . 3-5
Format New Disk . . . 3-6

4 Part A: Integration syngo / SCR 4-1

Run Batch for Finalizing the Installation . . . 4-1
General Procedure . . . 4-1
Log file for Material Number New and System Type Basic . . . 4-3
Log file for Material Number New and System Type Option . . . 4-4
Log file for Material Number Update and System Type Basic . . . 4-5
Log file for Material Number Update and System Type Option . . . 4-6
Check User Management for existing Background User . . . 4-7
Configure Auto Login for meduser . . . 4-9
Color Settings for syngo meduser . . . 4-11
Select the Language for SCR . . . 4-11
Changing the Keyboard Driver for syngo meduser . . . 4-12

5 Part A: syngo Configuration 5-1

Initial syngo Configuration . . . 5-1
Enter Service Key . . . 5-1
Import License File . . . 5-4
Configuration of Local Host Settings . . . 5-6
Site Info . . . 5-6
TCP / IP LAN . . . 5-7
Users . . . 5-10
Configuration of DICOM Settings . . . 5-11
General . . . 5-11
Offline Devices . . . 5-12
Network Nodes . . . 5-14
Configuration of Import/Export Directories . . . 5-15

Table of Contents

Applications 5-16
Check Configuration of Backup & Restore: SCR Package 5-18
Configuration of Security Settings 5-20
Finalize Initial Configuration 5-23
Settings in syngo User Management 5-23
Non Existent User 5-25
No Present DICOM Group 5-27
SCR Service: Enter License Keys 5-30
Check Online Help 5-31
Configure syngo Patient Browser 5-31
Configure Search Window 5-31

6 Part B: Matrox Installation 6-1

Check System Date and Time 6-1
Automatic Installation using Ghost 6-1
Checking Drive Assignments 6-2
Changing the Keyboard Driver 6-3
Restarting the System 6-6

7 Part B: System Settings 7-1

Formatting Dynamic Disk Arrays 7-1
Formatting and Assigning Extra Hard Disk (optional) 7-5
Format New Disk 7-6
Installation of Matrox Driver 7-6
Installation of Microsoft .NET Framework 7-6
Install Matrox Driver 7-7
TFT Display Settings 7-9

8 Part B: Integration syngo / SCR 8-1

Run Batch for Finalizing the Installation 8-1
General Procedure 8-1
Log file for Material Number New and System Type Basic 8-3
Log file for Material Number New and System Type Option 8-4
Log file for Material Number Update and System Type Basic 8-5
Log file for Material Number Update and System Type Option 8-6
Check User Management for existing Background User 8-7
Configure Auto Login for meduser 8-9
Color Settings for syngo meduser 8-11
Select the Language for SCR 8-11
Changing the Keyboard Driver for syngo meduser 8-12

9 Part B: syngo Configuration 9-1

Initial syngo Configuration 9-1
Enter Service Key 9-1
Import License File 9-4
Configuration of Local Host Settings 9-6

Site Info . . . 9-6
TCP / IP LAN . . . 9-7
Users . . . 9-10
Configuration of DICOM Settings . . . 9-11
General . . . 9-11
Offline Devices . . . 9-12
Network Nodes . . . 9-14
Configuration of Import/Export Directories . . . 9-15
Applications . . . 9-16
Check Configuration of Backup & Restore: SCR Package . . . 9-18
Configuration of Security Settings . . . 9-20
Finalize Initial Configuration . . . 9-23
Settings in syngo User Management . . . 9-23
Non Existent User . . . 9-25
No Present DICOM Group . . . 9-27
SCR Service: Enter License Keys . . . 9-30
Check Online Help . . . 9-31
Configure syngo Patient Browser . . . 9-31
Configure Search Window . . . 9-31

10 Final Inspection Test 10-1

Testing . . . 10-1
Start-up Procedures for Monitor Test . . . 10-1
Test 1: Login as Service User . . . 10-2
Test 2: Selecting Patients . . . 10-3
Test 3: Reviewing Test Images . . . 10-4
Test 4: Monitor Quality . . . 10-6
Check Geometrical distortion . . . 10-6
Check Display Artifacts . . . 10-7
Check Resolution . . . 10-7
Check Monitors . . . 10-7
Test 5: Review Mammograms . . . 10-8
Test 6: Shutting Down the System . . . 10-9
Test Summary . . . 10-10
Test Results . . . 10-10

11 Changes to Previous Version 11-1

A Appendix A-1

BIOS Settings Celsius R610 . . . A-1
Reinstallation of BARCO TFT Drivers . . . A-8
Reinstallation of BARCO CRT Drivers . . . A-17

Table of Contents

General Remarks

This is a complete installation of Windows XP / syngo and the MammoReport^{Plus} software version VB10.

The type of the MammoReport^{Plus} system to be produced depends on three criteria:

- Type of display system: ***CRT*** or ***TFT***
- Type of material number: ***Update*** or ***New*** system
- System type: ***Basic*** (without) or ***Option*** (with optional disk)

If two or more variants of types are mentioned, perform **only** one of these variants.

NOTE **After an installation has been performed according to this present manual, all customer settings have to be done according to document "Installation and Start-up" (SPB7-420.814.20 ...).**

Prerequisites

These instructions include initial installation and final testing after installation.

The installation of different drivers is divided in two parts:

- ***Part A:*** Barco installation (refer to chapters 2 - 5, 10)
- ***Part B:*** Matrox installation (refer to chapters 6 - 9, 10)

This document describes the installation of the software MammoReport^{Plus} version VB10 via Ghost, syngo configuration and initial settings.

NOTE **All necessary passwords will be communicated via training courses and Siemens Intranet only. Siemens Intranet: http://www-td.med.siemens.de/**

Except for the formatting of data disks, final adjustments and syngo basic configuration, all other steps are performed automatically via the Ghost installation that comprises the following steps:

- Installation of the operating system Windows XP
- Installation of SQL Server 2000 database
- Installation of additional components:
  – Hot fixes:
    - EN_PC02604.exe
    - 833987
    - 839645
    - 840315
    - 841873
    - 873376
  - Acrobat Reader 6.0.2

Installation of drivers for the two HR graphic boards BARCO CRT or BARCO TFT.

Note: Installation of driver for HR graphic board MATROX TFT is not included.

- Installation of syngo VD20N
- Installation of the MammoReport^{Plus} application software
- Preparing the hard disks:
  - 2 x 147 GB hard disks are for data stripe (RAID0); importing and formatting is done later manually.
  - the smaller hard disk (36 GB) is for the OS, application software and user data (e.g. database).
  - optional: 1 x 147 GB extra hard disk for data

The ghost image is installed on the smaller hard disk (36 GB). Successful installation has to be verified by running corresponding test scripts.

Recommended Hardware

The installation is described for Workstation Celsius R610 including:

- 2 HD drives (147 GB each) plus 1 system HD (36 GB)

For system type ***Option***: Additional HD drive (147 GB)

- 2 high resolution monitors (either CRT[1] or TFT)

Part A: HR graphic board(s) (either 2 Barco graphic boards for CRT or 1 Barco graphic board for TFT). The drivers for Barco boards are pre-installed

Part B: HR graphic board MATROX for TFT (VGA). The driver will be installed during production process.

- Special workflow keypad
- CD-RW drive
- DVD-ROM drive
- LCD syngo monitor

1. The SIMOMED monitors are delivered switched to 75 Ohm impedance by default. For the MammoReport application they have to be switched to 50 Ohms before operation (see SIMOMED manual for details).

Check System Date and Time

1. **Restart** the workstation. During restart press **F2** to get access to **BIOS**.
2. On tab Main, check **System time** and **System date** and - if necessary - change them to the correct values.
3. On tab Security, check that **Start from IDE CD-ROM** is enabled.

NOTE	**After exiting the BIOS, the computer will restart automatically. Therefore be sure to have the DVD MammoReport VB10 at hand to insert it into DVD-ROM drive while the computer is restarting.**

4. **Save** and **exit BIOS** with key **F10**.
5. Confirm message with **Yes** = press return key and be prepared to insert the **DVD MammoReport VB10 for R610 Barco CRT/TFT**.

Automatic Installation using Ghost

One installation DVD is necessary for the installation of the MammoReport^{Plus} software.

NOTE	**The Ghost software licences are only valid for computers where MammoReport^{Plus} software has to be installed. Do not use the software on other computers.**

1. Insert the **DVD MammoReport VB10 for R610 Barco CRT/TFT** into the (top) DVD-ROM drive and boot the computer directly from DVD.
2. A **boot menu** appears on the screen.
   The menu consists of two steps:
   Microsoft Windows 98 Start menu
   1. Backup System drive
   2. Use Ghost interactive
3. Choose **2: Use Ghost interactive**
4. Click on **Continue without marking drives** if this question is shown.
5. In **About** select **OK**.
6. Select in menu Local ⇒ Disk ⇒ **From image.**
7. In **Image file name to restore from** select **Look in:** drive R [...] CD ROM drive
8. Select one variant:

   - For ***CRT*** display system: Select file **610BCRT1.GHO**
   - For ***TFT*** display system: Select file **610BTFT1.GHO**

9. In **Select local destination...**: choose **Drive 1** and confirm with **OK**.
10. In **Destination drive details** click **OK**.
11. Confirm question **Proceed with disk restore**... with **Yes**. Installation of image begins. **Progress indicator is running**, it takes about 10 min.

12. Message appears: **Clone complete**... ⇒ click **Reset Computer**.
During restart **remove DVD** from DVD drive.

The computer starts from hard disk and the Windows XP Mini-Setup runs automatically to **make the system unique**.

WindowsXP starts and finishes with log in window.

- Log in as OS **administrator** with valid password. The Windows user interface will be displayed on the syngo monitor.

If the Windows message **System Settings Change** is displayed, click on **No**.

- Check system date and time with double click on Windows task bar.
- Do **not** restart the computer now.

Check Monitor Order CRT

This part shall only be performed for ***CRT*** display system.

1. **On syngo monitor** open **Display Properties** with right mouse click on Windows desktop ⇒ Properties.
2. Open tab **Settings** - the monitor order should be:

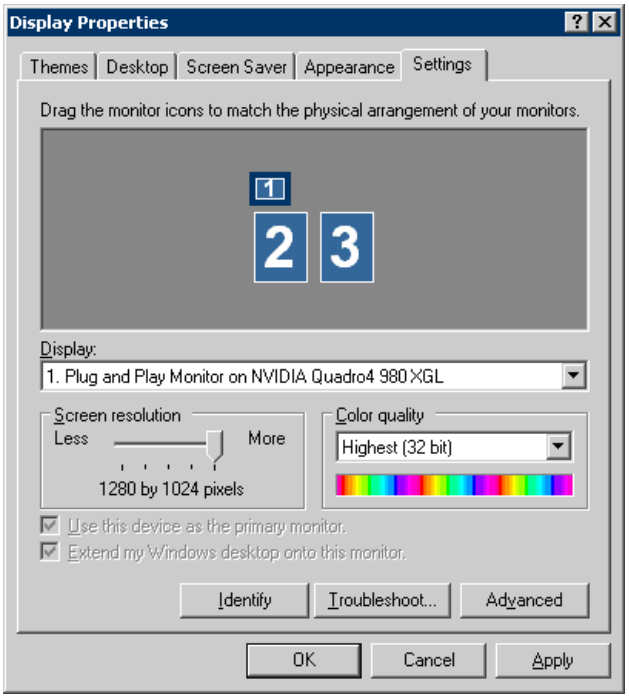


Fig. 1 Monitor Order after Image Restore

3. Hold left mouse button pressed and **move** the small **monitor 1** (this is the syngo monitor) to the position **left** from monitor 2 on the **bottom line**.

NOTE

If you cannot move monitor 1 down, monitors 2 and 3 might be disabled. In this case you have reinstall the Barco driver for CRT monitors.

For that purpose refer to "Reinstallation of BARCO CRT Drivers" in Appendix.

4. **Move monitor 2** in the same way to the right of monitor 3.
5. The correct monitor order is as shown below:

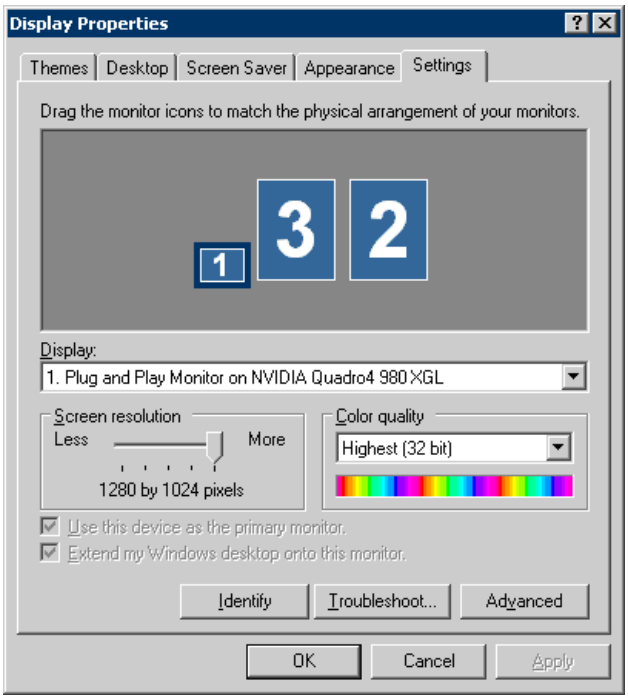


Fig. 2 Final Monitor Order

6. Click **OK** twice to leave the display properties, but do **not** restart the computer.

Check Monitor Order TFT

This part shall only be performed for ***TFT*** display system.

1. Click on Monitor 1 and move down to bottom line - the display order should be as shown in next figure.

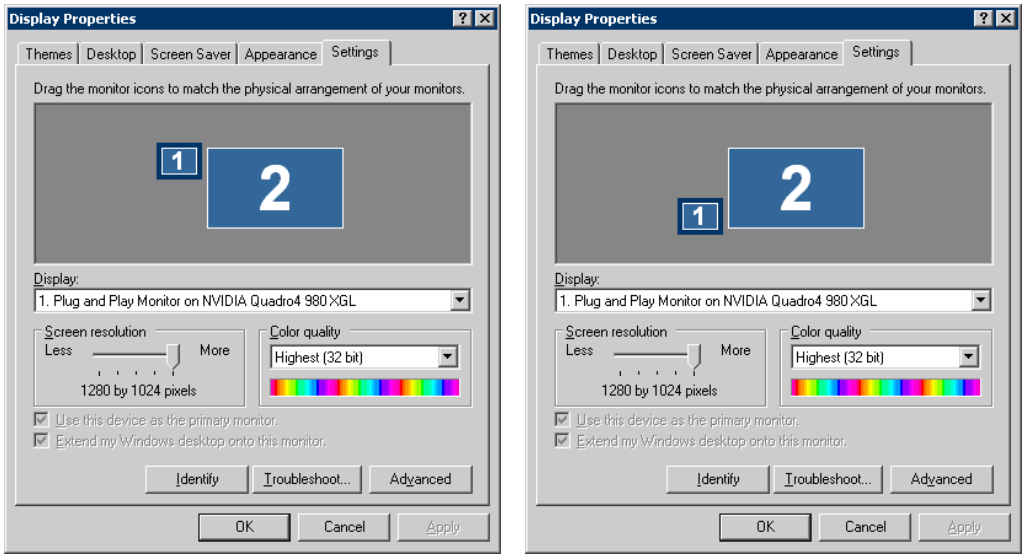
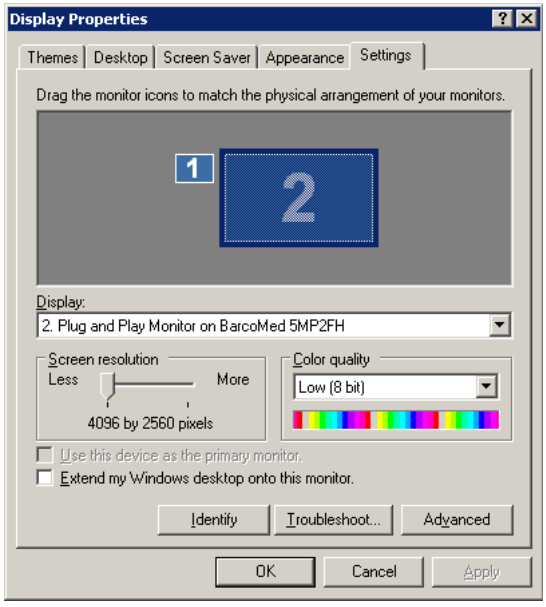


Fig. 3 Monitor display settings

NOTE

If you cannot move monitor 1 down, monitor 2 is disabled.



In this case, uninstall and reinstall the Barco driver for TFT monitors. For that purpose refer to "Reinstallation of BARCO TFT Drivers" in Appendix.

2. Click **OK** twice to leave the display properties, but do **not** restart the computer.

Checking Drive Assignments

This step is to ensure that the drives are properly assigned.

NOTE	**Data disks are not yet imported. Assigning and renaming of data disks is described in chapter Formatting Dynamic Disk Arrays on page 3-1.**

The partitions should be:

1. for system and applications: **MED_SYSTEM (C:)**
2. for **DVD drive (D:)**
3. for **CD-RW drive (E:)**

NOTE	**If the drive letters for DVD (D:\) and CD-RW (E:\) are not correct, then select Disk Manager to change the drive letters manually.**

If the drives are not correctly assigned, change the drive letters as follows:

1. Right mouse click on My Computer ⇒ Manage ⇒ **Disk Management.**
2. Right mouse click on **DVD-Drive** ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign … and select D:** from list.
3. Accept message box appearing; do **not** boot the computer now.
4. Right mouse click on **CD-ROM** (CD-ROM1) ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign … and select E:** from list.
5. Accept message box appearing.

Changing the Keyboard Driver

Perform in case of production with predefined language setting.

The MammoReport^{Plus} workstation is delivered with one of the following keyboards:

- US International keyboard:
  - Default input language: English (United States)
  - Installed service / Keyboard Layout: United States-International
- German keyboard:
  - Default input language: German (Germany)
  - Installed service / Keyboard Layout: German
- French keyboard:
  - Default input language: French (France)
  - Installed service / Keyboard Layout: French
- Spanish keyboard:
  - Default input language: Spanish (Spain)
  - Installed service / Keyboard Layout: Spanish

- Italian keyboard:
  - Default input language: Italian (Italy)
  - Installed service / Keyboard Layout: Italian
- Portuguese keyboard:
  - Default input language: Portuguese (Portugal)
  - Installed service / Keyboard Layout: Portuguese
- English keyboard:
  - Default input language: English (United Kingdom)
  - Installed service / Keyboard Layout: United Kingdom
- Swedish keyboard:
  - Default input language: Swedish (Sweden)
  - Installed service / Keyboard Layout: Swedish

NOTE	**To correct the fonts for Italian, Portuguese or Swedish keyboard run batch D:\batch\languages\import_<x>.bat, with x = italian, portuguese or swedish.**

To change the keyboard language, follow the steps below:

1. As user OS administrator select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.
2. In Control Panel click **Switch to Classic View** (if not already present, see Fig. 5).

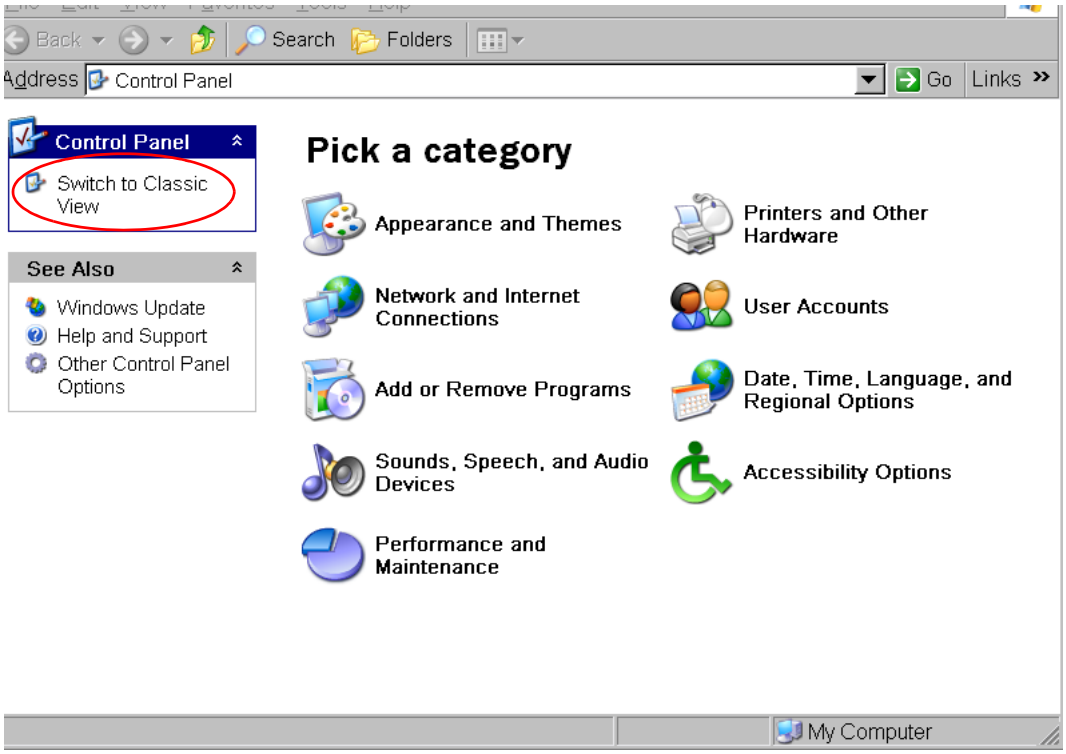


Fig. 4 Windows XP view

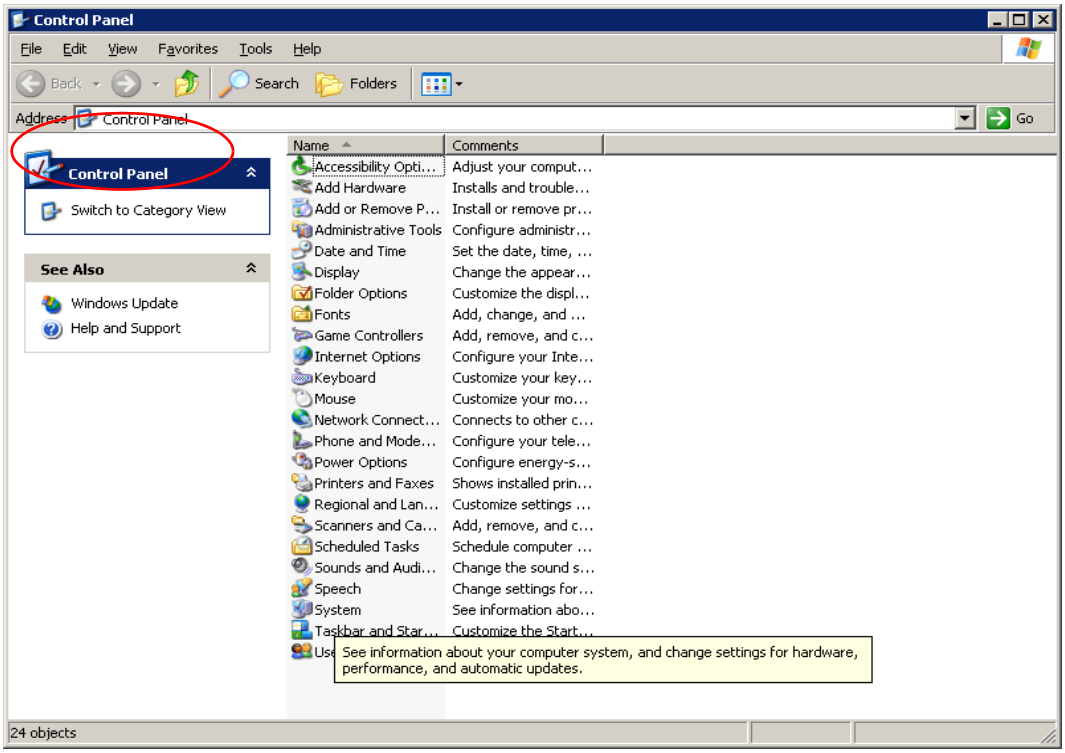


Fig. 5 Windows classical view

3. In list view, double click the icon **Regional and Language Options**.

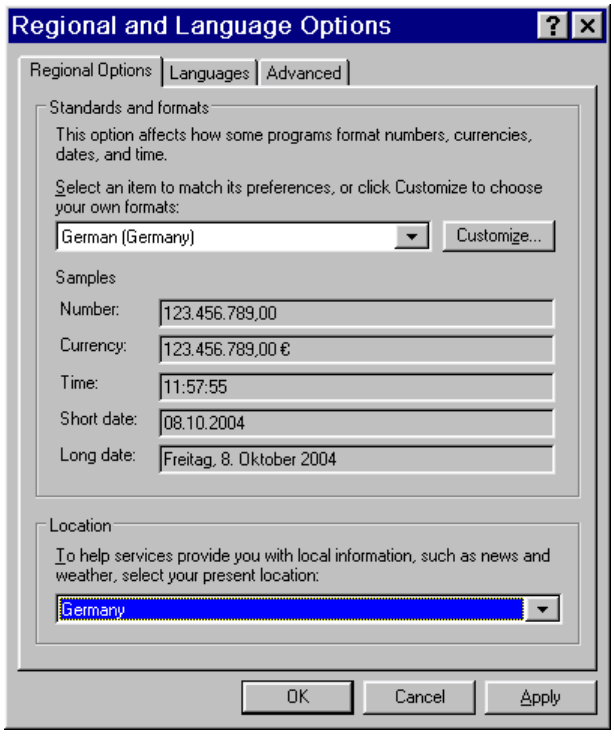


Fig. 6 Regional and Language Options

4. Choose **format** and **location** as required. Click **Apply**.

5. Click on tab **Languages**. Click button **Details**.

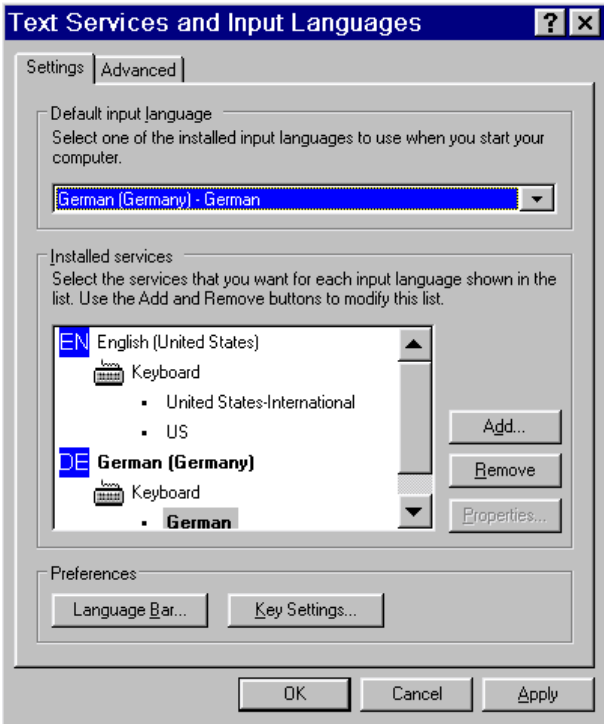


Fig. 7 Text Services and Input Languages

6. Select **Default input language** and **Installed service**s. Click **OK**.
7. Click OK again.

Restarting the System

1. **Restart** the workstation. During restart **press F2** to access the **BIOS**.
2. Enter password to enter BIOS.
3. On tab Security, **disable Start from Floppy**: Select **Start from Floppy**, press **return key**, select **Disable** and press **return key** again.
4. Disable **Start from IDE CD-ROM** in the same way.
5. **Save** and **exit BIOS** with key **F10**, confirm message with **Yes** = press return key.
6. **Restart** system and log in as **OS administrator**.

NOTE	**In spite of configured keyboard settings, the OS login window always uses the default keyboard (US international), the dollar sign “$” can be typed with SHIFT+4.**

Formatting Dynamic Disk Arrays

NOTE

In case of installation with 1 extra HD drive, the following procedure has to be performed. Ignore that the extra hard disk cannot be seen on the figures. Steps to perform are described on Page 3 - 5.

To format the dynamic disk arrays for data disks, the following steps have to be done manually:

1. Right mouse click on My Computer ⇒ Manage ⇒ **Disk Management.**
2. A wizard pops up. Click **Next**.
3. Mark all disks in checkboxes to apply signatures to them and click **Next**.
4. To upgrade them, click **Next** and then **Finish**.
5. The formatting process starts automatically.

NOTE

If you use hard disks that have not been formatted, skip the following steps 6-8.

6. Click on **Disk 1**.
7. Open context menu with right mouse click and convert to **Dynamic**.
8. Repeat this for **Disk 2** - now both disks are Dynamic.

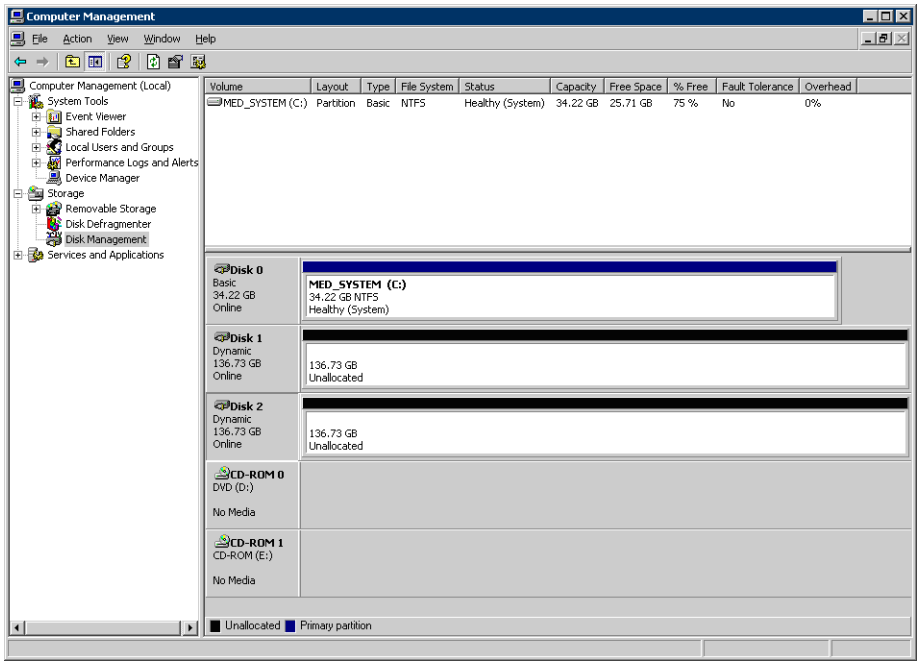


Fig. 1 Disk 1 and Disk 2 Dynamic

9. Right mouse click on Disk 1 ⇒ **New Volume**.

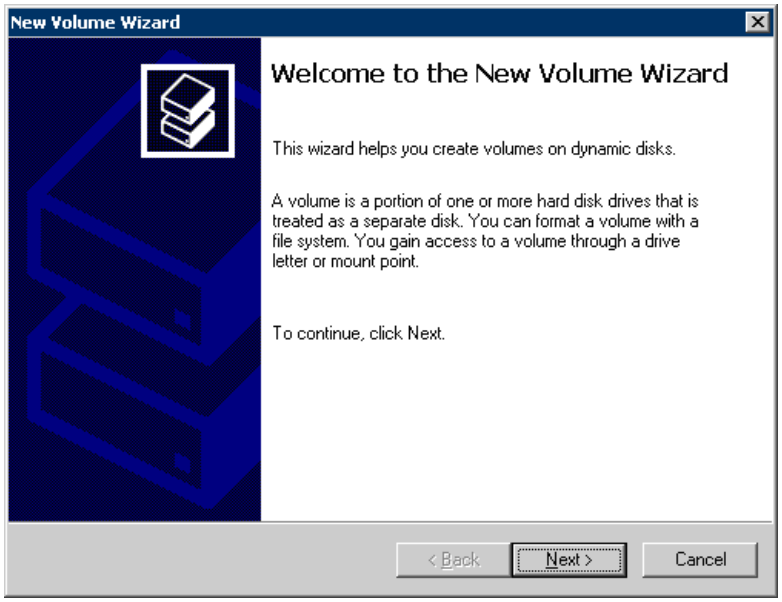

New Volume Wizard
Welcome to the New Volume Wizard
This wizard helps you create volumes on dynamic disks.
A volume is a portion of one or more hard disk drives that is treated as a separate disk. You can format a volume with a file system. You gain access to a volume through a drive letter or mount point.
To continue, click Next.
< Back
Next >
Cancel

Fig. 2 New Volume Wizard

10. Click **Next**.

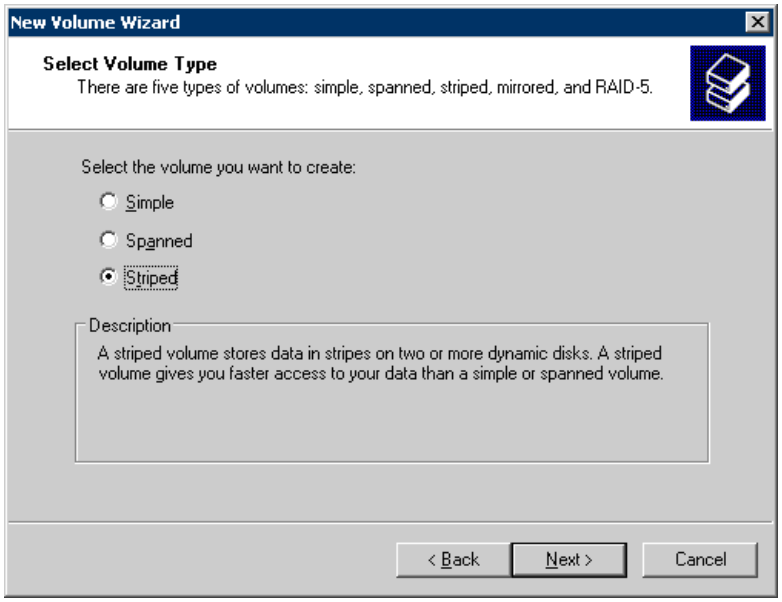

New Volume Wizard
Select Volume Type
There are five types of volumes: simple, spanned, striped, mirrored, and RAID-5.
Select the volume you want to create:
Simple
Spanned
Striped
Description
A striped volume stores data in stripes on two or more dynamic disks. A striped volume gives you faster access to your data than a simple or spanned volume.
< Back
Next >
Cancel

Fig. 3 Select Volume Type

11. Select **Striped** and click on **Next**.

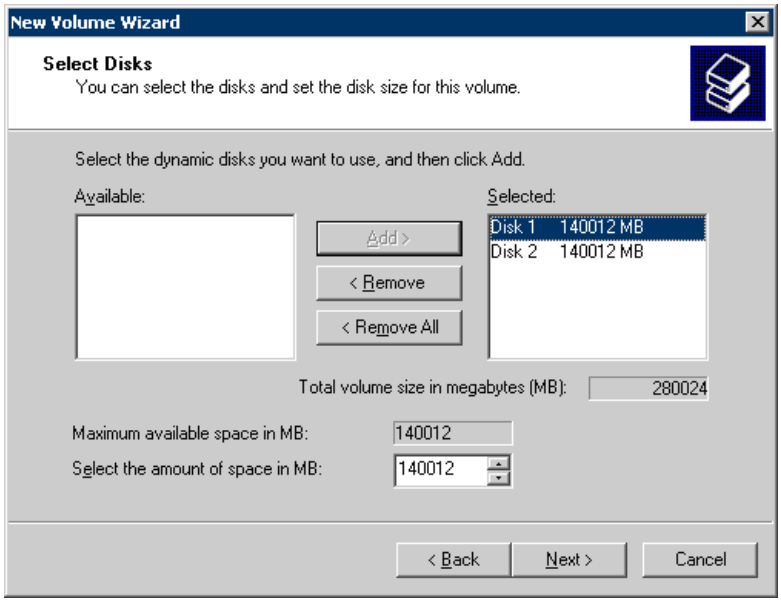

New Volume Wizard
Select Disks
You can select the disks and set the disk size for this volume.
Select the dynamic disks you want to use, and then click Add.
Available:
Selected:
Disk 1 140012 MB
Disk 2 140012 MB
Add >
< Remove
< Remove All
Total volume size in megabytes (MB): 280024
Maximum available space in MB: 140012
Select the amount of space in MB: 140012
< Back
Next >
Cancel

Fig. 4 Add Disk 2 to Selected Disks

12. Select **Disk 2** from Field **Available** and click on **Add**.
13. Click **Next**.

For System Type ***Basic***:
Drive **F** should be preselected in **Assign Drive Letter or Path**. If not preselected, select it and click **Next**.

For System Type ***Option***:
Change the selection in **Assign Drive Letter or Path** to drive letter **G**. Click **Next**.

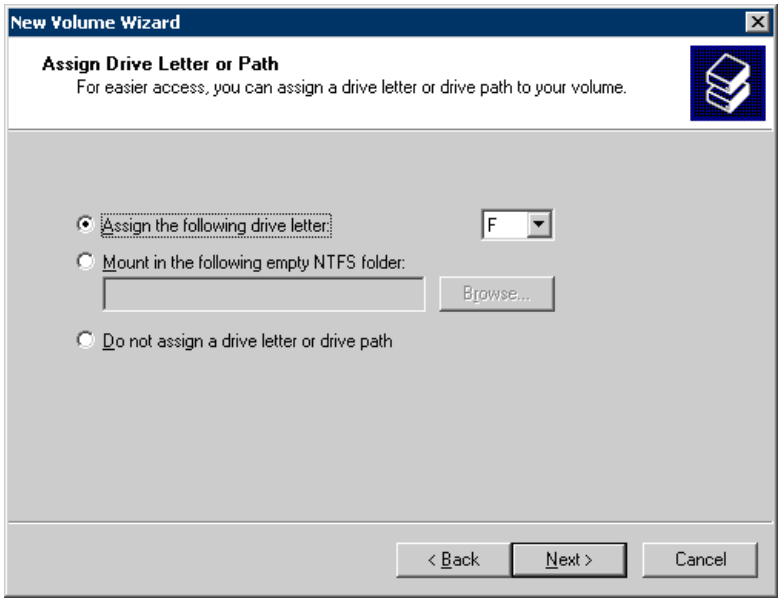

New Volume Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your volume.
Assign the following drive letter:
F
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

Fig. 5 Assign Drive Letter or Path

14. In **Format Volume** leave the default settings:
    - File System **NTFS.**
    - Allocation unit size **default**.

For System Type ***Basic***:
Enter **Volume label**: **MED_DATA** and select **Perform a quick format**.

For System Type ***Option***:
Enter **Volume label**: **SCR_DATA** and select **Perform a quick format**.

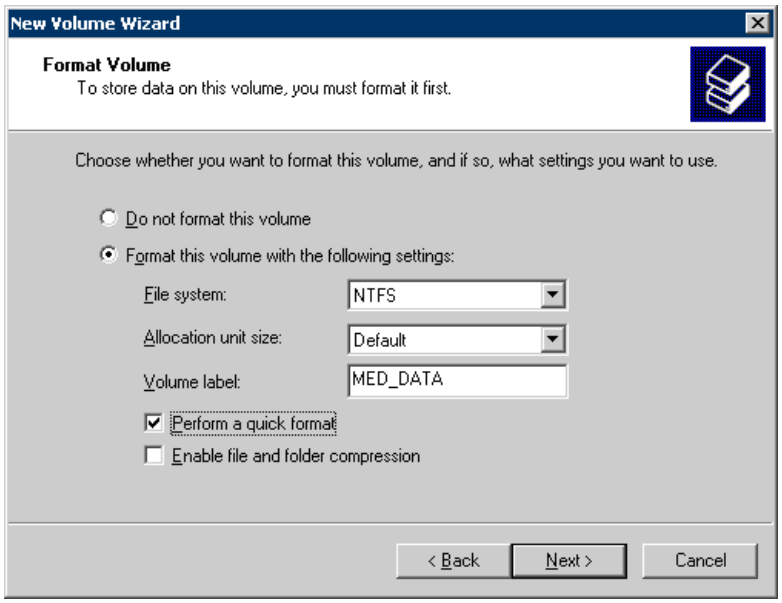

New Volume Wizard
Format Volume
To store data on this volume, you must format it first.
Choose whether you want to format this volume, and if so, what settings you want to use.
Do not format this volume
Format this volume with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
MED_DATA
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

Fig. 6 Format Volume

15. Click on **Next** and **Completing the New Volume Wizard** opens.

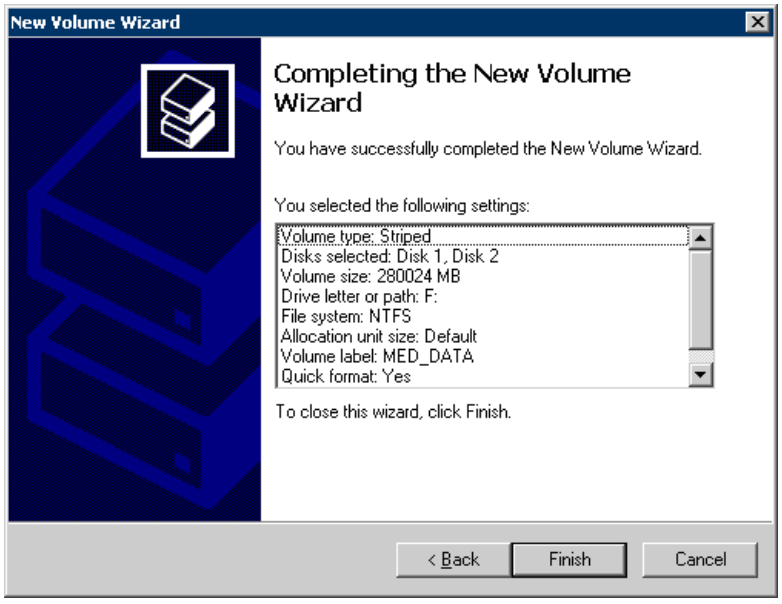


Fig. 7 Completing the New Volume Wizard

16. Click on **Finish** - quick formatting of new volume starts.

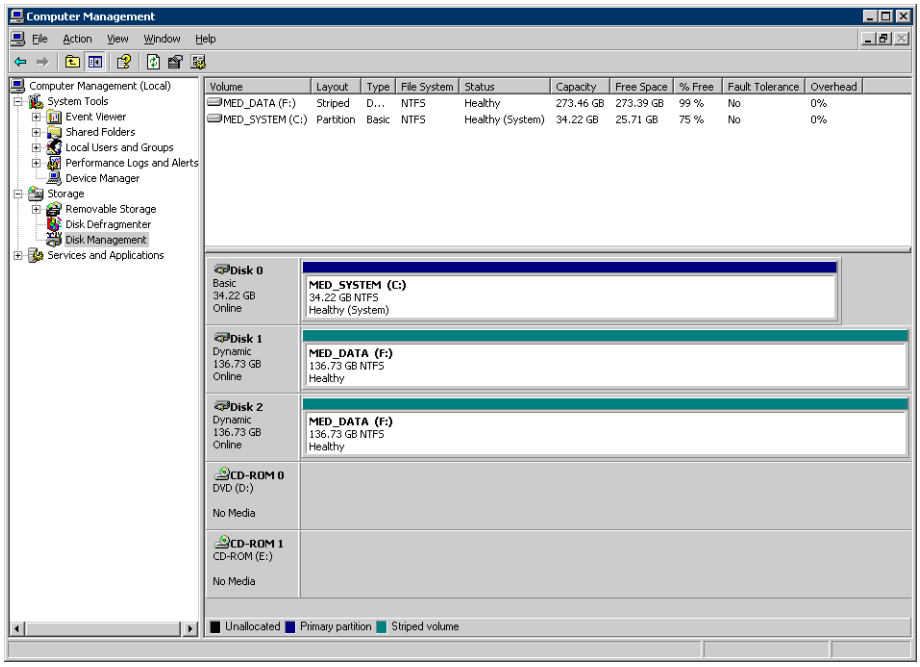


Fig. 8 Striped Volume MED_DATA (F: without optional hard disk)

17. Wait until quick formatting is finished. and **disks 1 and 2** are shown and marked as **healthy**.

For System Type ***Basic***:
MED_DATA is shown as partition **F**.

For System Type ***Option***:
SCR_DATA is shown as partition **G**.

Formatting and Assigning Extra Hard Disk (optional)

For System Type ***Basic***:
Skip this chapter in case of standard installation.

For System Type ***Option***:
The 3rd data hard disk will be a separate partition F:\

NOTE	**Do not stripe this partition with the two existing data disks.**

Format New Disk

1. **Format new disk** as **basic / simple / primary partition** (NOT STRIPED or SPANNED).
2. **Assign** drive letter **F:\,** name **MED_DATA**.
3. Exit computer management and open Windows explorer.

Run Batch for Finalizing the Installation

Four different batches are available to complete the installation of the system.

Select the correct batch following these criteria:

- Type of Material Number: ***New*** (8646460)or ***Update*** (8620192) system
- System type: ***Basic*** (2 striped data hard disks) or ***Option*** (2 striped data hard disks + additional hard disk)

General Procedure

The correct batch name is composed of **install_BARCO_<material number>_<system type>.bat**.

1. Run the batch D:\batch\install_BARCO>_<material number>_<system type>.bat
2. A DOS box is opened.

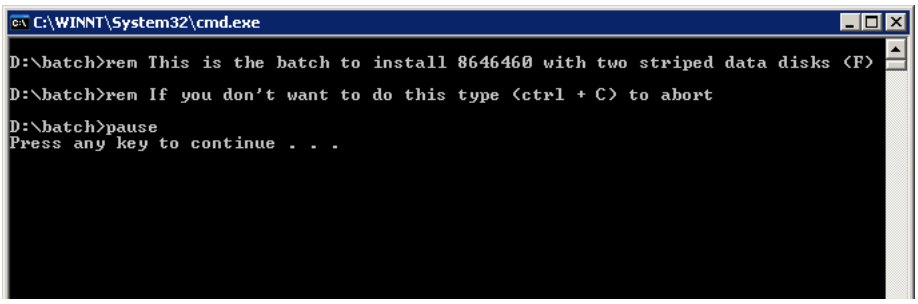

C:\WINNT\System32\cmd.exe
D:\batch>rem This is the batch to install 8646460 with two striped data disks (F)
D:\batch>rem If you don't want to do this type (ctrl + C) to abort
D:\batch>pause
Press any key to continue . . .

Fig. 1 Example: Running batch

3. Check that you have selected the correct batch, then press any key.

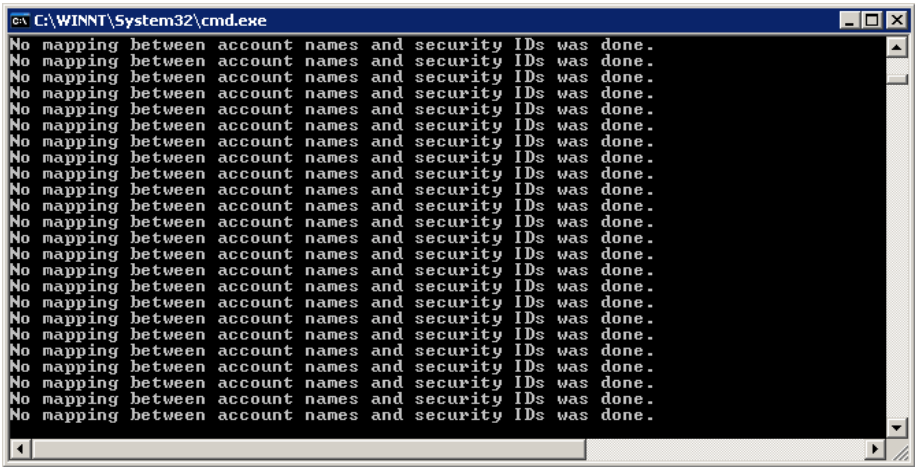


Fig. 2 Info messages

4. The message “No mapping..” appears many times.

5. If a message “Could Not Find C:\temp*.txt” appears, that is NOT an error, ignore it.

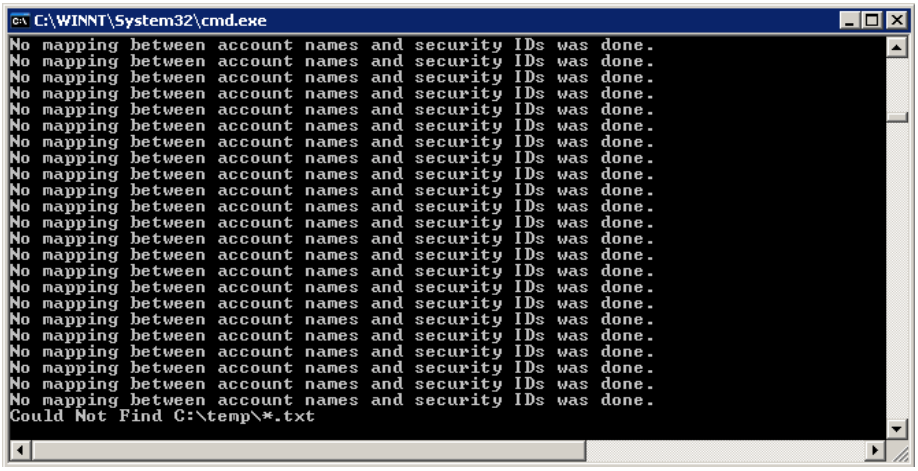


Fig. 3 Info messages

6. If a message “The process cannot access the file because it is being used by another process” you have to check the User management later in this chapter and after syngo configuration.
7. Accept appearing four dialog boxes:
   - for Material Number ***New*** and System Type ***Basic***/***Option*** refer to Fig. 4
   - for Material Number ***Update*** and System Type ***Basic***/***Option*** refer to Fig. 5.
8. The system is rebooted automatically.
9. After reboot, login as OS administrator and **check** in Explorer the availability of the following log files in C:\temp. All listed files must be available.

Refer to one of the following sections:

- "Log file for Material Number New and System Type Basic" on page 4 - 3
- "Log file for Material Number New and System Type Option" on page 4 - 4
- "Log file for Material Number Update and System Type Basic" on page 4 - 5
- "Log file for Material Number Update and System Type Option" on page 4 - 6

Log file for Material Number New and System Type Basic

Run the following batch: install_BARCO_8646460_basic.bat

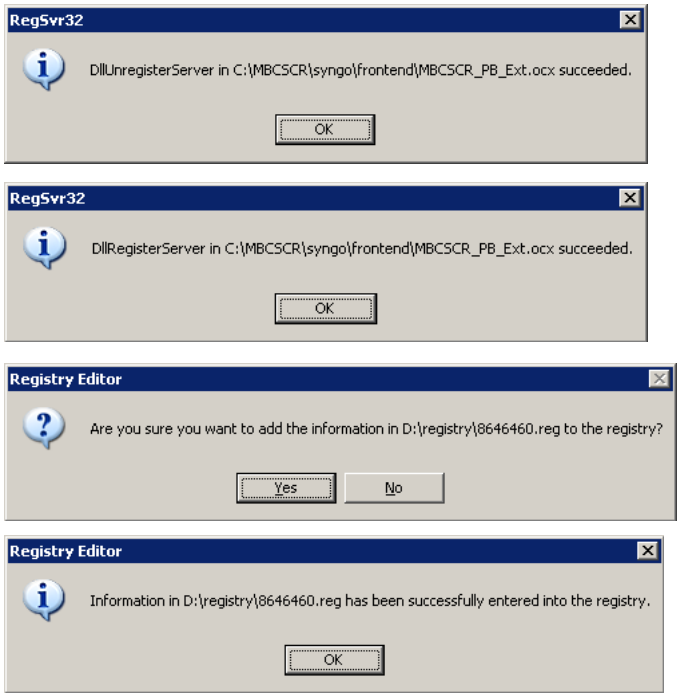


Fig. 4 Dialog boxes: DLLUnregister, DLLRegister, Import to Registry, import successfully (from top to bottom)

CheckSecuritySettings.log
configureSCRbr.log
csasecsetinstallprot_install.log

NOTE

Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:
... ->ERROR: ...<-
The log file shall contain in the first block entries like:
...seci: setPermissions(...\...), done

If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.

Check the new log file "C:\temp\csasecsetinstallprot_install.log" again, that no error message appears, but "done" is displayed

EnvironmentVariablesAfterBatches.log
produce0.log
produce2.log
produce3.log
produce4.log
produce5f.log

scr.dat

SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log

SetSecPermFilesRevers.log

shutdown.log

Log file for Material Number New and System Type Option

Run the following batch: install_BARCO_8646460_option.bat

CheckSecuritySettings.log

configureSCRbr.log

csasecsetinstallprot_install.log

NOTE	**Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:** **... ->ERROR: ...<-** **The log file shall contain in the first block entries like:** **...seci: setPermissions(...\...), done** **If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.** **Check the new log file "C:\temp\csasecsetinstallprot_install.log" again, that no error message appears, but "done" is displayed**

EnvironmentVariablesAfterBatches.log

produce0.log

produce2.log

produce3.log

produce4.log

produce5g.log

scr.dat

SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log

SetSecPermFilesRevers.log

shutdown.log

Log file for Material Number Update and System Type Basic

Run the following batch: install_BARCO_8620192_basic.bat

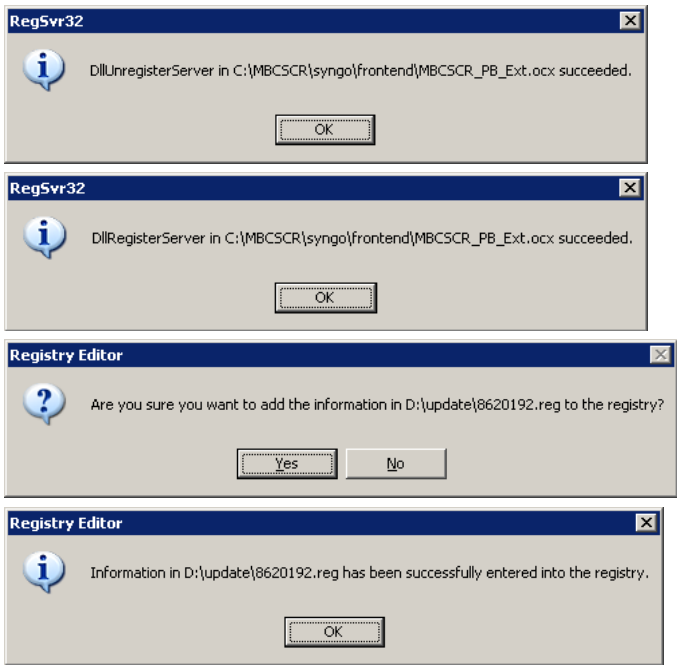


Fig. 5 Dialog boxes: DLLUnregister, DLLRegister Import to Registry, import successfully (from top to bottom)

CheckSecuritySettings.log

configureSCRbr.log

csasecsetinstallprot_install.log

NOTE

Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:
... ->ERROR: ...<-
The log file shall contain in the first block entries like:
...seci: setPermissions(...\...), done

If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.

Check the new log file “C:\temp\csasecsetinstallprot_install.log” again, that no error message appears, but “done” is displayed

EnvironmentVariablesAfterBatches.log

produce0.log

produce1.log

produce2.log

produce3.log

produce4.log

produce5f.log

scr.dat

SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log

SetSecPermFilesRevers.log

shutdown.log

Log file for Material Number Update and System Type Option

Run the following batch: install_BARCO_8620192_option.bat

CheckSecuritySettings.log

configureSCRbr.log

csasecsetinstallprot_install.log

NOTE	**Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:** **... ->ERROR: ...<-** **The log file shall contain in the first block entries like:** **...seci: setPermissions(...\...), done** **If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.** **Check the new log file "C:\temp\csasecsetinstallprot_install.log" again, that no error message appears, but "done" is displayed**

EnvironmentVariablesAfterBatches.log

produce0.log

produce1.log

produce2.log

produce3.log

produce4.log

produce5g.log

scr.dat

SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log

SetSecPermFilesRevers.log

shutdown.log

Check User Management for existing Background User

1. Call “Start - syngo - security - Configuration.
2. In the appearing DOS box, enter the administrator password and press **Enter**.

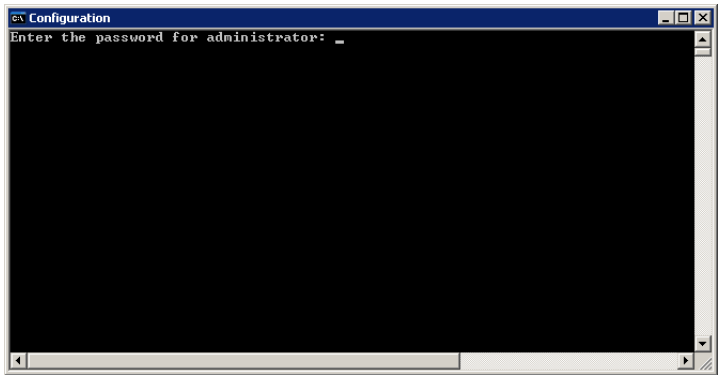


Fig. 6 Configuration window

3. If an error message appears, accept it - and skip the following instructions. This will be checked again during Syngo configuration in chapter “Settings in syngo User Management”.

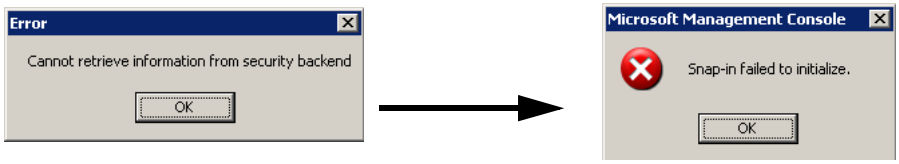


Fig. 7 Error Messages

4. If the “Syngo Security Configuration” window opens, double click **User Management** and in the right window **Users**.

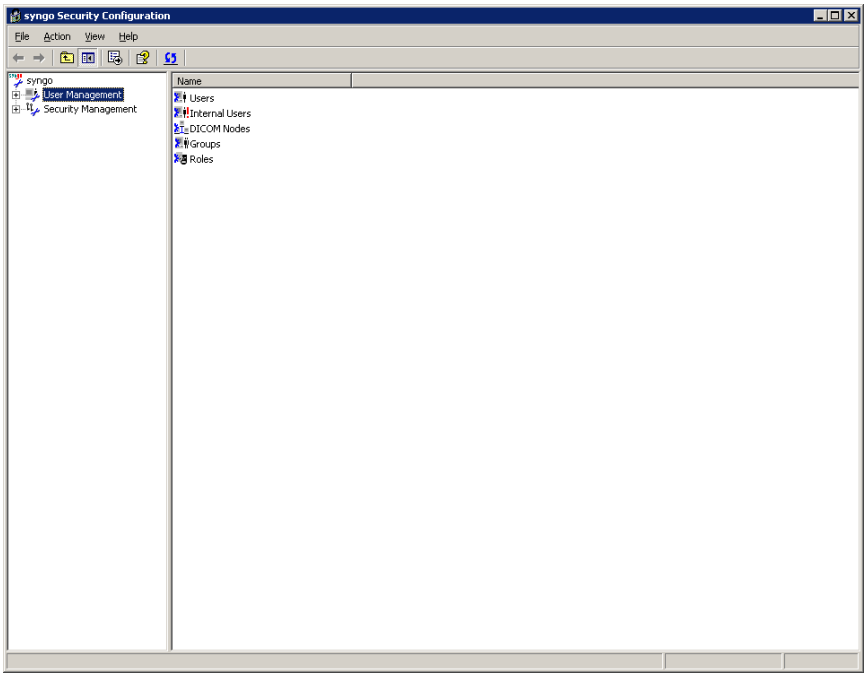


Fig. 8 Syngo Security Configuration window

5. The user “MBC_BACKGROUNDUSER” shall be available in the right window.

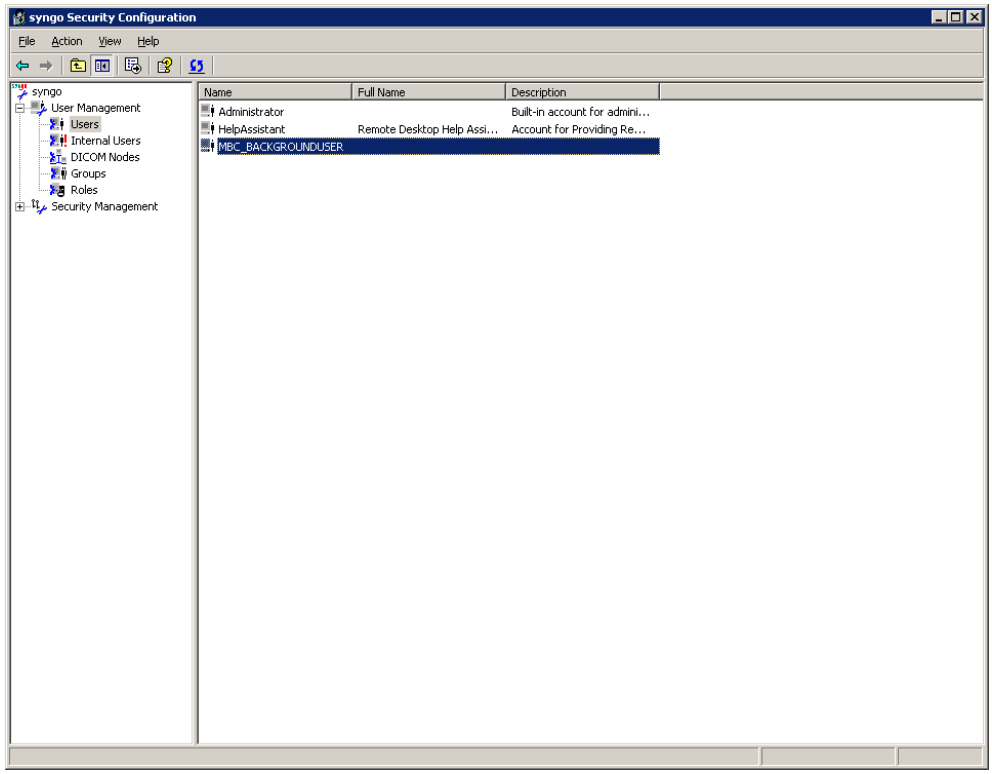


Fig. 9 Syngo Security Configuration window

6. Double click MBC_BACKGROUNDUSER” and click on the tab “Member Of”. Under “Assigned” DICOM_GROUP shall be mentioned.

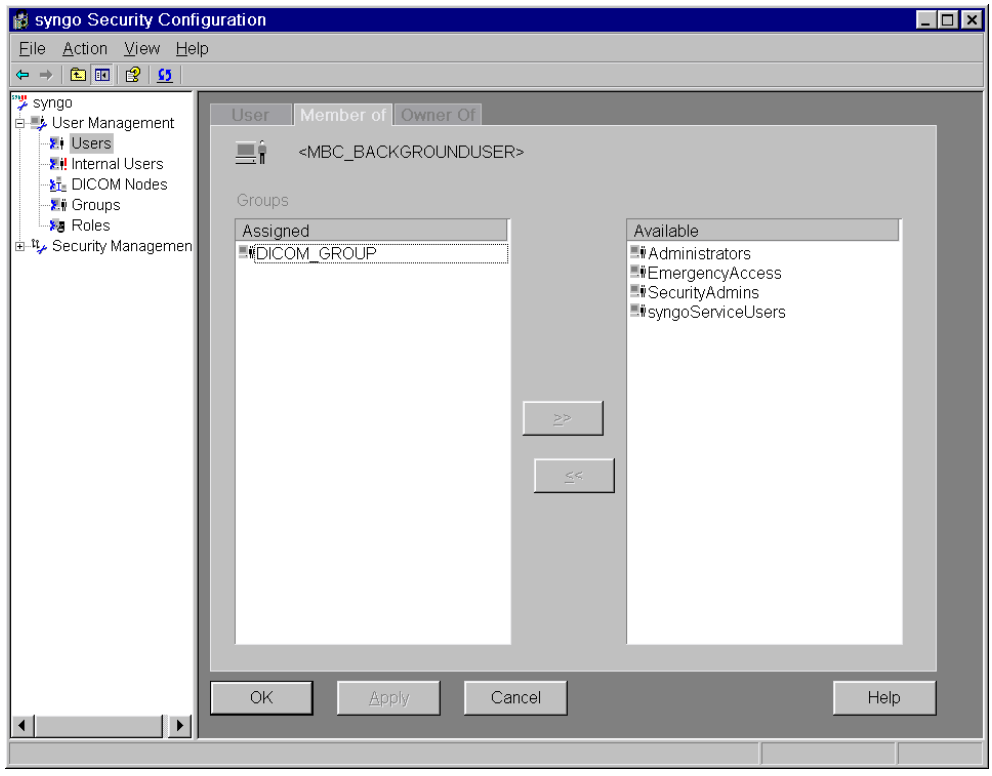


Fig. 10 Syngo Security Configuration window

7. Click on tab “Owner Of”. Under “Assigned” DICOM_GROUP shall be mentioned as well.

NOTE

If in step 5 the user is not available, close the window and run from Windows explorer the batch “D:\batch\all\CreateBackground-User.bat”.

A DOS box opens and disappears. Then run the batch “D:\batch\all\SetBackgroundUserGroup.bat".

Repeat steps 1-7; everything shall be ok. If not, this will be checked again during Syngo configuration in chapter "Settings in syngo User Management".

NOTE

If only in steps 6 and 7 DICOM_GROUP is not mentioned, close the window and run "D:\batch\all\SetBackgroundUserGroup.bat".

Repeat steps 1-7; everything shall be ok. If not, this will be checked again during Syngo configuration in chapter "Settings in syngo User Management".

Configure Auto Login for meduser

1. Run batch **D:\batch\SetDefaultMeduser.bat**
2. A DOS window opens (and closes some seconds later).
3. The Windows control panel for **Users and Accounts** opens.
4. Select **meduser** from the list.
5. Uncheck checkbox **Users must enter a user name and password to enter this computer**.
6. Click **Apply**.
7. Enter the password twice.
8. Press **OK**.
9. Leave the dialog with **OK**.

10. Reboot the computer and wait until the Service UI appears. Do **not** enter the license now, but proceed with the next sections.

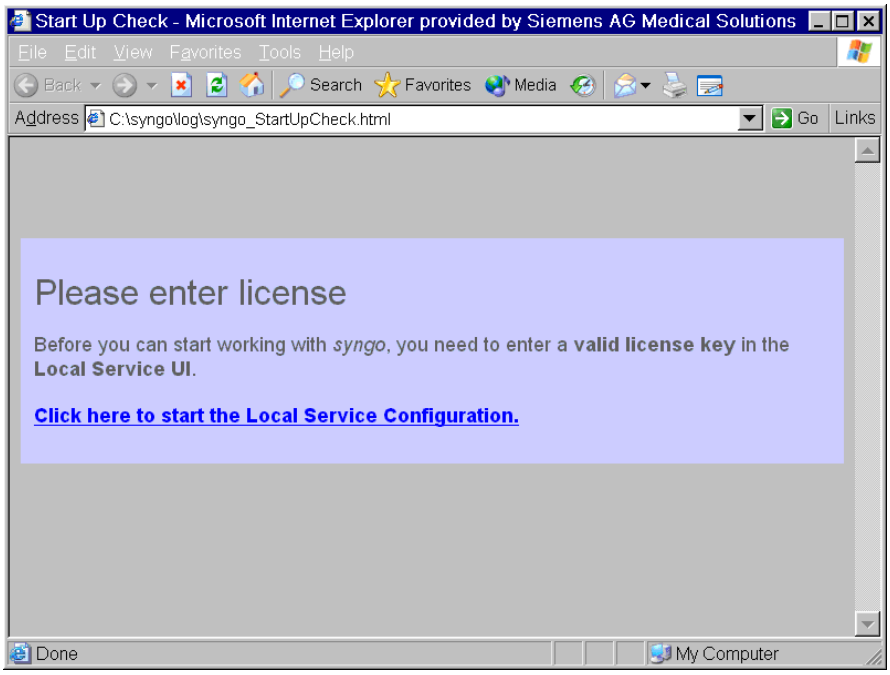

Start Up Check - Microsoft Internet Explorer provided by Siemens AG Medical Solutions
File Edit View Favorites Tools Help
Back Search Favorites Media
Address C:\syngo\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

Fig. 11 Start Up Check

NOTE	It can take up to 15 minutes. Do NOT open the IE manually!

NOTE	If window "Please enter license" does not appear, double click on IE icon on desktop.

Color Settings for syngo meduser

Skip this section if the black Windows desktop is shown.

For syngo meduser, the color setting shall be **Siemens_True_Color**.

1. On the desktop syngo monitor, open with right mouse click **Display Properties** ⇒ **Themes**. Select Theme **Siemens_True_Color**.

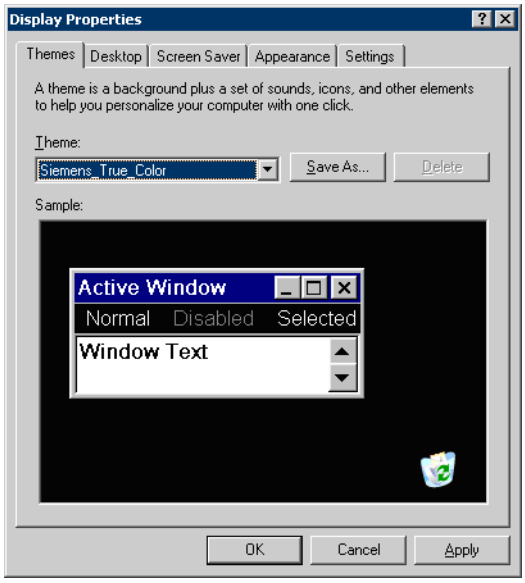


Fig. 12 Siemens True Color

2. Click on **OK** to save the setting and leave the dialog.

Select the Language for SCR

Perform in case of production with predefined language setting.

Currently four languages are available: English, French, German and Spanish.

NOTE	**For the Swedish version, select English language.**

Language	Setting in lightbox.ini
English	gb
French	fr
German	ger
Spanish	es

Tab. 1 Language Settings in lightbox.ini

1. Double click on **LanguageSelector.exe** in C:\MBCSCR**.**
   The following dialog appears:

Fig. 13 Language Selector

2. Select language and confirm with **OK**. The language settings in lightbox.ini will then automatically be switched to the selected language.

Changing the Keyboard Driver for syngo meduser

Perform in case of production with predefined language setting.

The MammoReport^{Plus} workstation is delivered with one of the following keyboards:

- US International keyboard:
  - Default input language: English (United States)
  - Installed service / Keyboard Layout: United States-International
- German keyboard:
  - Default input language: German (Germany)
  - Installed service / Keyboard Layout: German
- French keyboard:
  - Default input language: French (France)
  - Installed service / Keyboard Layout: French
- Spanish keyboard:
  - Default input language: Spanish (Spain)
  - Installed service / Keyboard Layout: Spanish
- Italian keyboard:
  - Default input language: Italian (Italy)
  - Installed service / Keyboard Layout: Italian
- Portuguese keyboard:
  - Default input language: Portuguese (Portugal)
  - Installed service / Keyboard Layout: Portuguese
- English keyboard:
  - Default input language: English (United Kingdom)
  - Installed service / Keyboard Layout: United Kingdom
- Swedish keyboard:
  - Default input language: Swedish (Sweden)
  - Installed service / Keyboard Layout: Swedish

To change the keyboard language follow the steps below:

1. Select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.
2. In the list view, double click the icon **Regional and Language Options**.

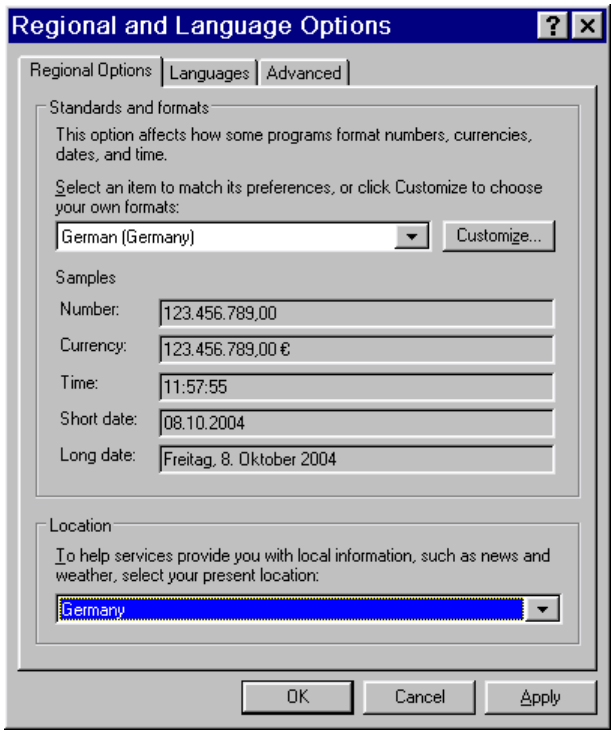


Fig. 14 Regional and Language Options

3. Choose **format** and **location** as required. Click **Apply**.
4. Click on tab **Languages**. Click button **Details**.

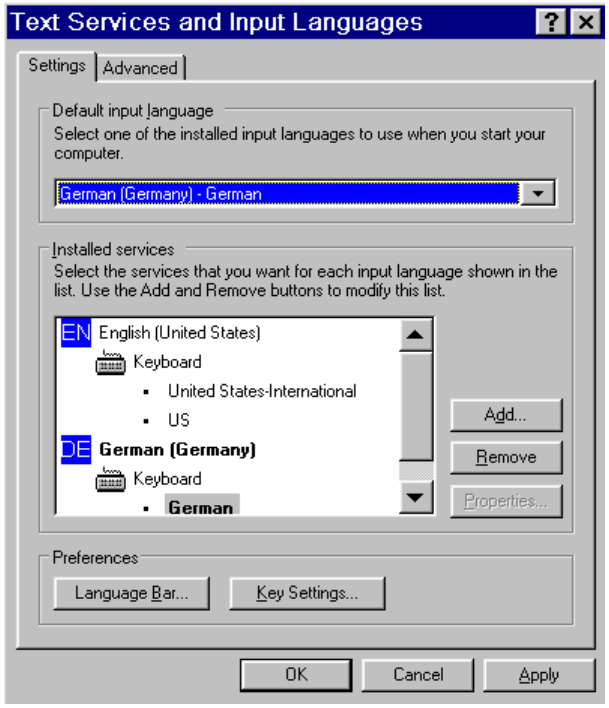


Fig. 15 Test Services and Input Languages

5. Select **Default input language** and **Installed service**s. Click **OK**.
6. Click **OK** again.
7. **Restart** the system to activate the settings.

Initial syngo Configuration

The initial syngo configuration must be performed manually step by step. Service key and licenses are required first. After that, the setup procedure continues with configuration selection frame on the left side of the window. Select the next button on the action bar.

Enter Service Key

1. Start syngo Local Service Configuration with click on the link.

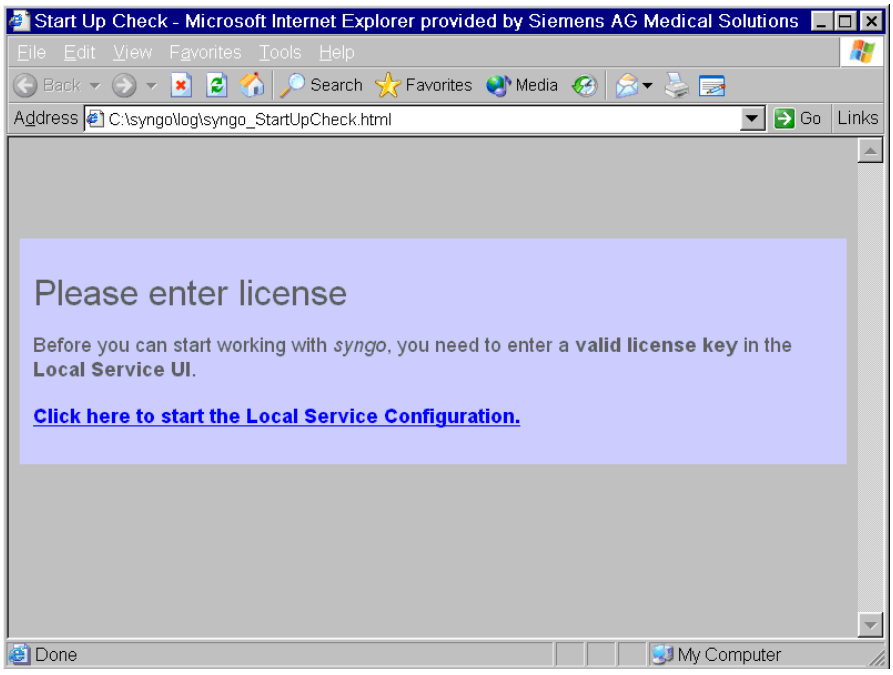

Start Up Check - Microsoft Internet Explorer provided by Siemens AG Medical Solutions
File Edit View Favorites Tools Help
Back Search Favorites Media
Address C:\syngo\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

Fig. 1 Start Local Service Configuration

For Type of Material Number: ***New*** (8646460)
Insert CD MammoReport License Keys with the serial number into DVD drive D:\.

For Type of Material Number: License CD for ***Update*** (8620192)
Use the special Update CD.

2. Press **Windows key** and open **Explorer**.
3. **Open** the file containing the **service key** from DVD D:\.
4. Copy the **first 14 digits** to the clipboard (Ctrl + C) and paste them (Ctrl + V) into the **large text field** for the password.

5. Copy the **last 6 digits** to the clipboard and paste them into the **small password field**.

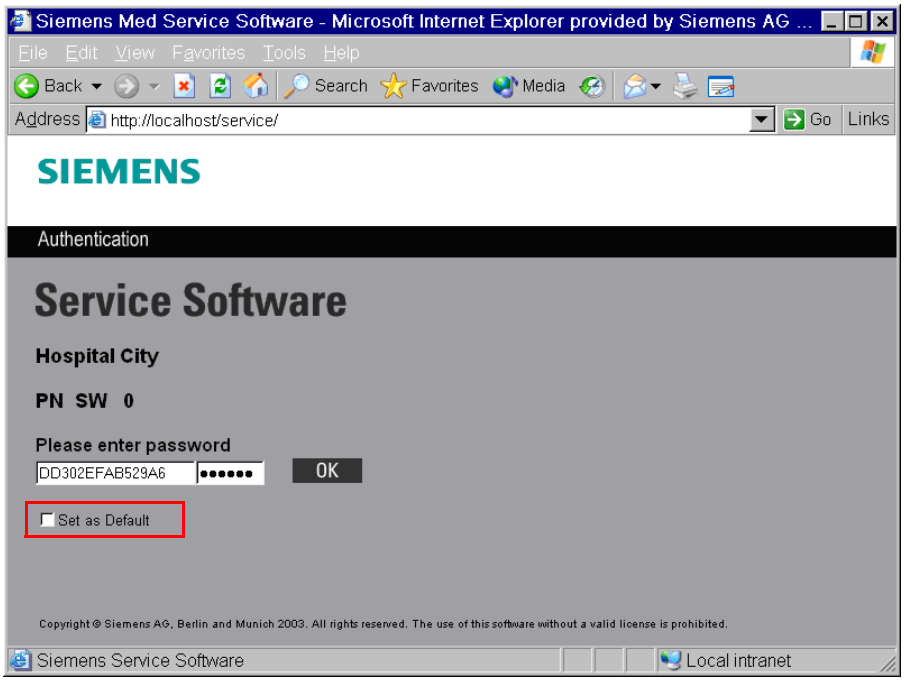

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG ...
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/service/
Go Links
SIEMENS
Authentication
Service Software
Hospital City
PN SW 0
Please enter password
DD302EFAB529A6
OK
Set as Default
Copyright © Siemens AG, Berlin and Munich 2003. All rights reserved. The use of this software without a valid license is prohibited.
Siemens Service Software
Local intranet

Fig. 2 Enter Service Key

6. Select “Set as Default” and click **OK**.
7. Set Internet Explorer to default browser - click **Yes** on message.

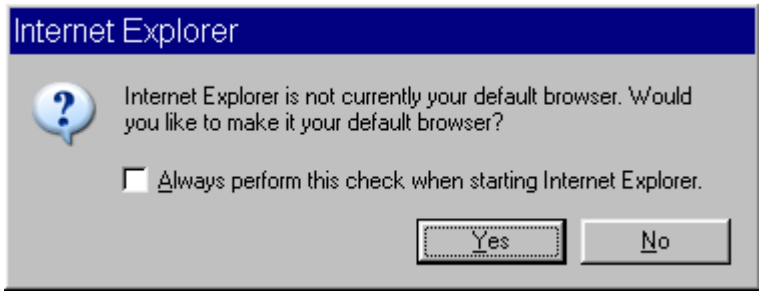

Internet Explorer
Internet Explorer is not currently your default browser. Would you like to make it your default browser?
Always perform this check when starting Internet Explorer.
Yes
No

Fig. 3 Internet Explorer dialog

8. The Home Menu appears - click on service function **Configuration**.

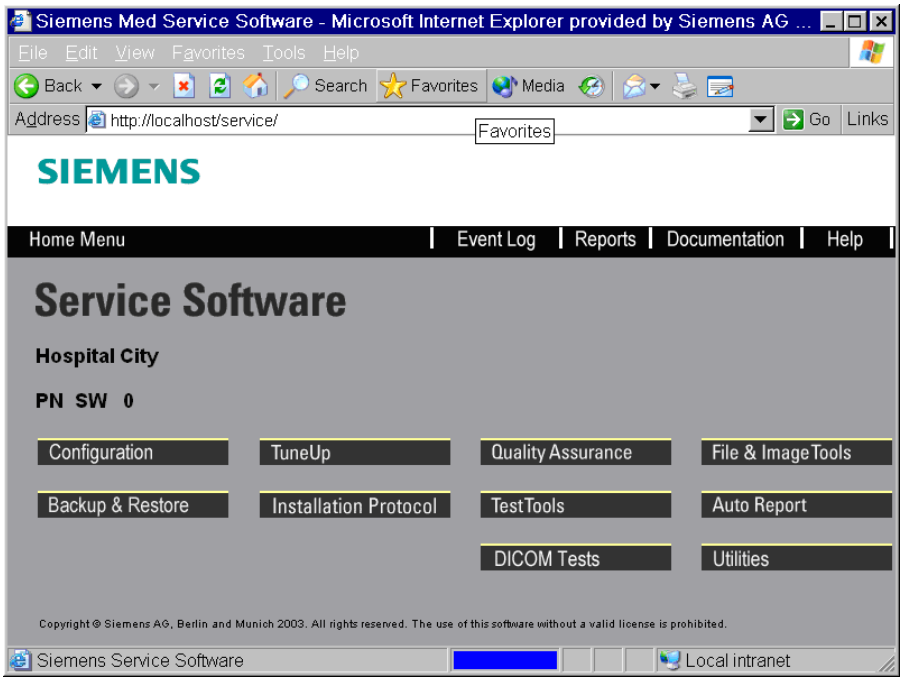


Fig. 4 Home Menu

9. **MammoReportPlus** is selected as System type and **Attached to Network** is already checked.

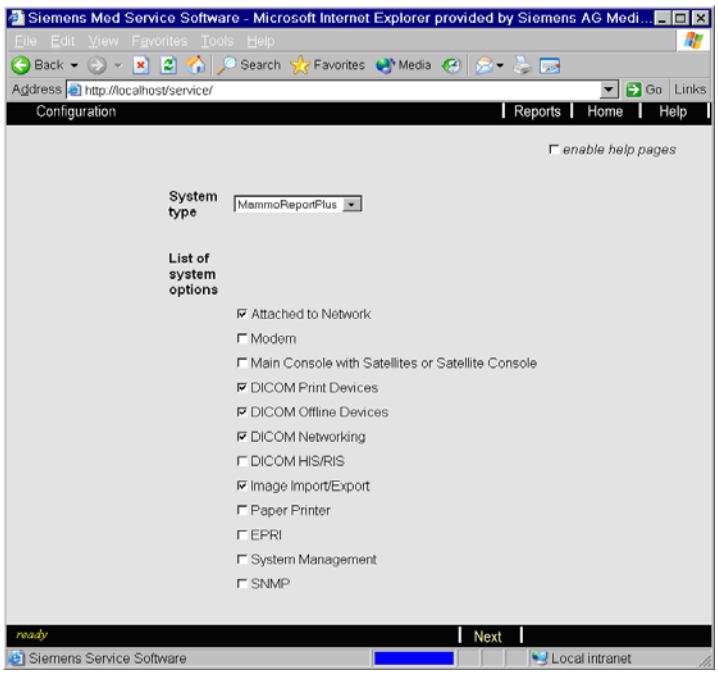


Fig. 5 List of System Options

10. Check the **three DICOM options** (do not check DICOM HIS/RIS) and **Image Import /Export** - click **Next**.

11. Initial Setup window appears.

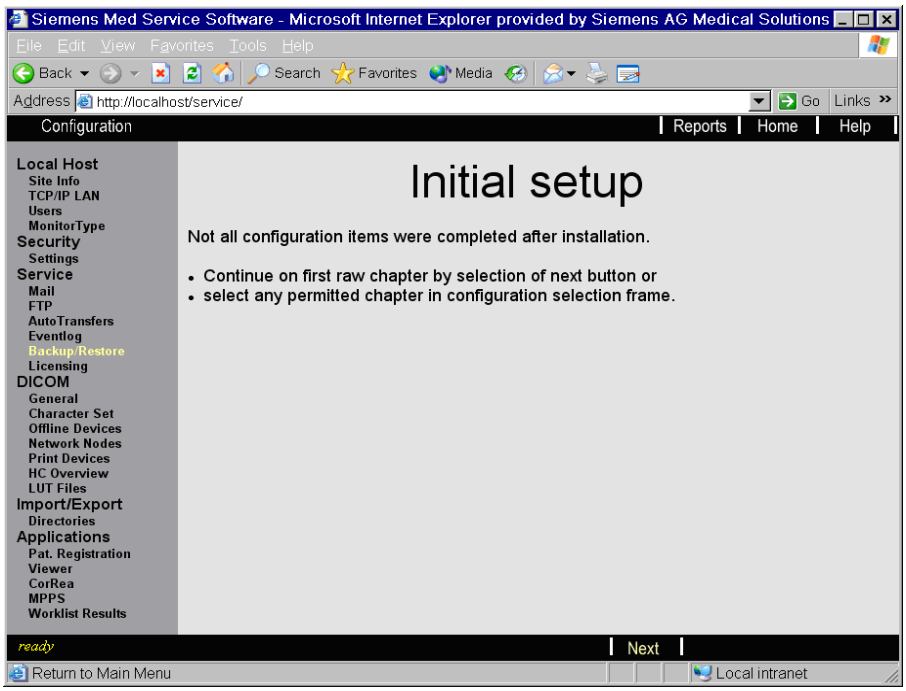


Fig. 6 Initial Setup Window

12. Click **Next** on the action bar.

Import License File

1. The next configuration window is Licensing. The query of the licence file will be activated automatically.
2. A message comes up: The License File does not contain any features. Click **OK**.

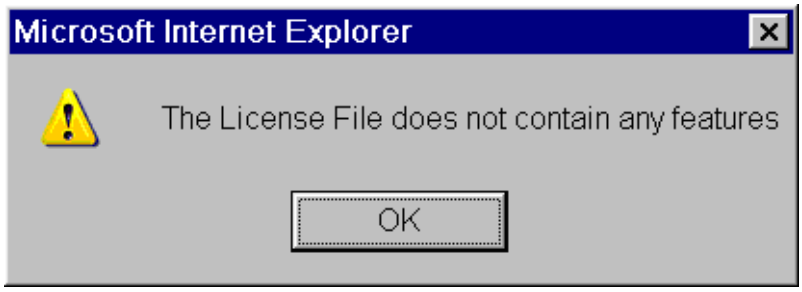


Fig. 7 Warning: License File does not contain any Features

3. **Browse** to license file on **Service CD** on D:\ and click on **Import License file**.

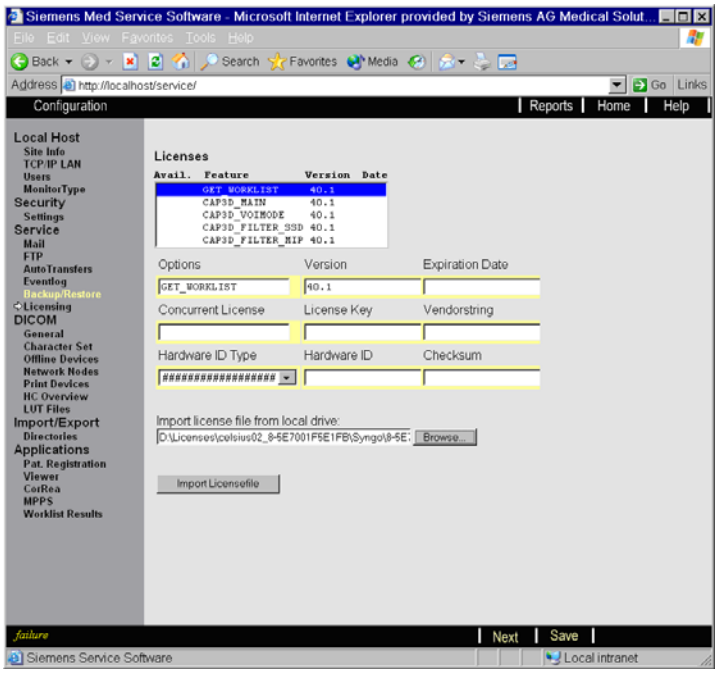


Fig. 8 Import License File

4. A message appears: Are you sure you want to overwrite the existing License File? Click **OK**.

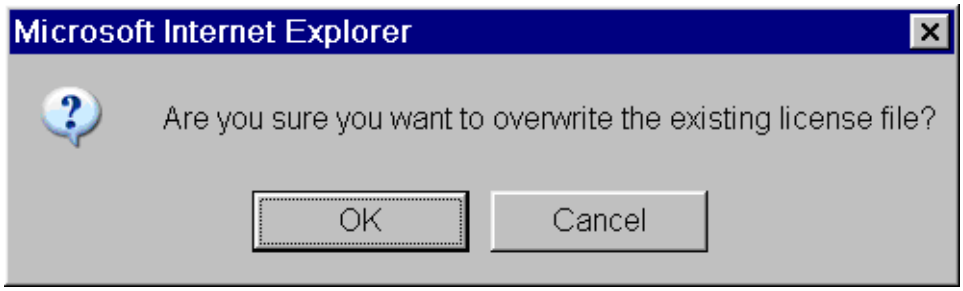


Fig. 9 Question: Overwrite License File

5. **Importing license file...** is shown on progress bar - **wait** for **ready** to appear.
6. Then click **Save** on the action bar and wait for **ready** on the progress bar.
7. Then click on **Next**.

Configuration of Local Host Settings

Site Info

1. In **Local Host / Site Info** enter the **Serial No**. of the MammoReport system and the **<computer/station name>**.

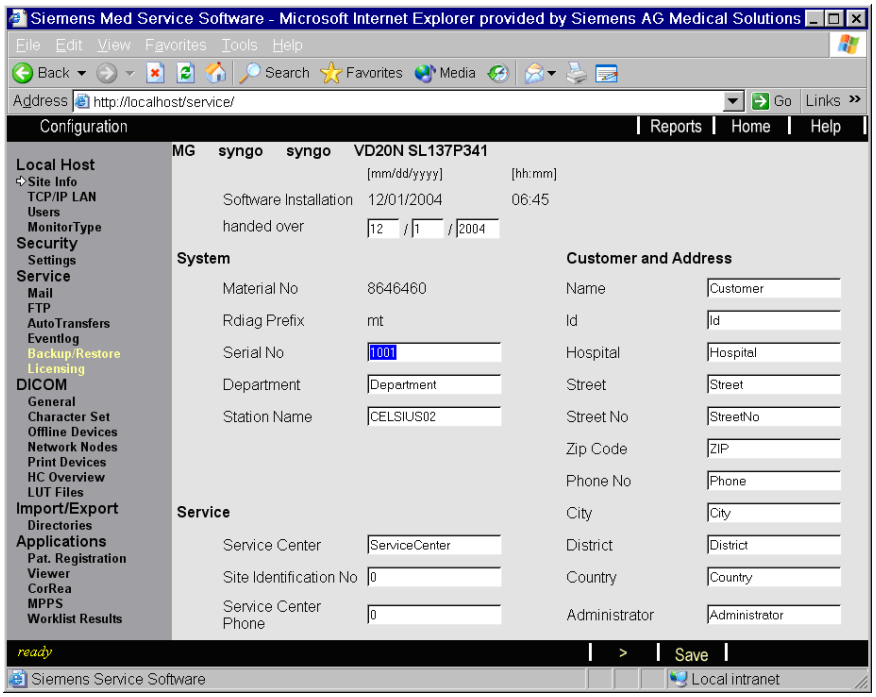


Fig. 10 Local Host / Site Info

2. Click on **Save**; **shutdown pending** appears on the info bar.
3. Click on the **arrow** for next page **>**: Time zone / Date.

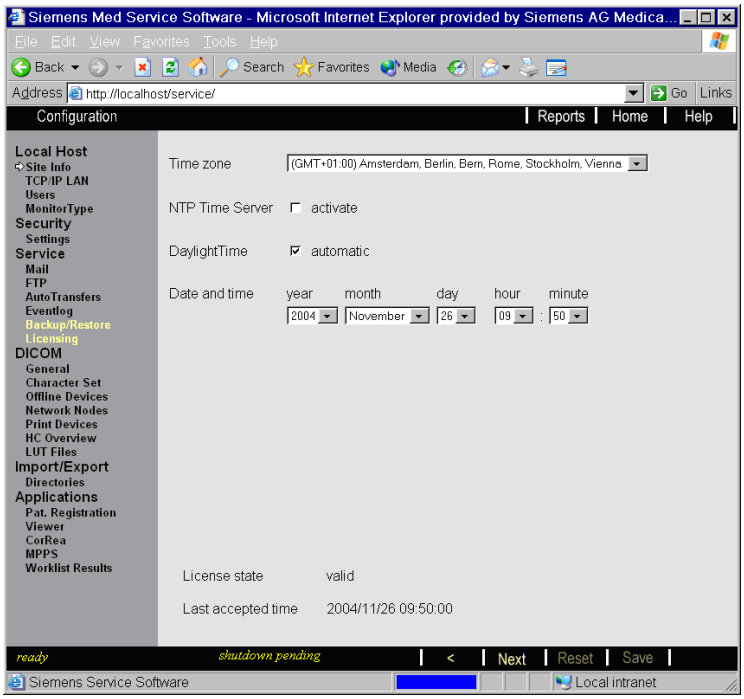


Fig. 11 Site Info: Time Zone and Date

4. Change the time zone (if necessary) as follows for the corresponding languages:

   - (GMT) Greenwich Mean Time for Portuguese (Portugal) and English (United Kingdom).

   - (GMT+01:00) Amsterdam... for German (Germany), Italian (Italy) and Swedish (Sweden)

   - (GMT+01:00) Brussels... for French (France), Spanish (Spain)

   - for English (United States) select an appropriate time zone

5. Click on **Save**.

6. Click on **Next** and a message comes up.

Microsoft Internet Explorer
Be aware that time stamps on any archived documents will derive from these time entries.
If you are sure the time settings are all right, press OK.
OK
Cancel

Fig. 12 Question: Time settings have changed

7. Click **OK**.

TCP / IP LAN

1. Change Computer name to **<computer/station name>**.

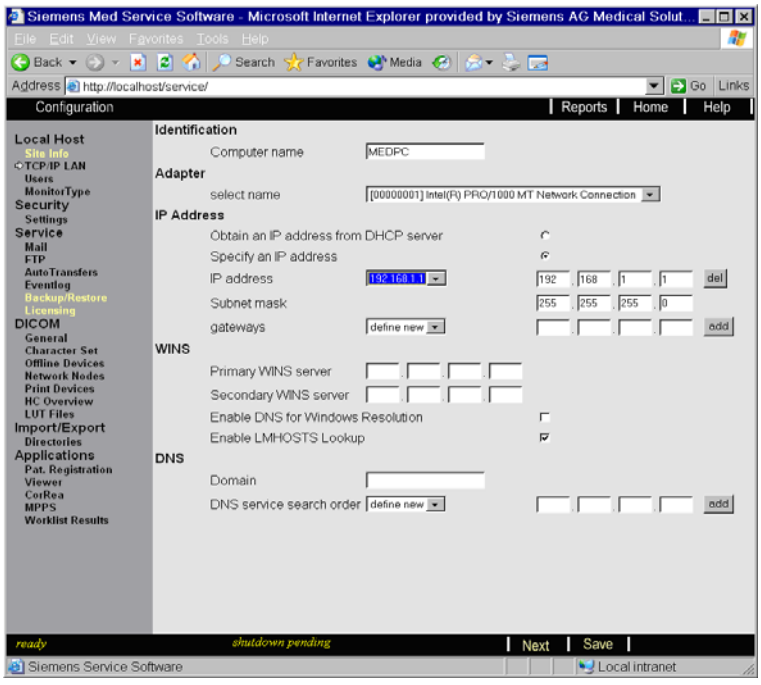


Fig. 13 Delete IP address

2. Select **Specify an IP address** with radio button (if not already selected).
3. If in **IP address** any IP address is defined, select it and click on the adjacent **del button**. Wait for the deletion to be completed.
4. Make sure in **IP address** “define new” is selected and and enter the IP address of the computer in the local network.
5. **Select** entered **IP address** and click on **Save**.

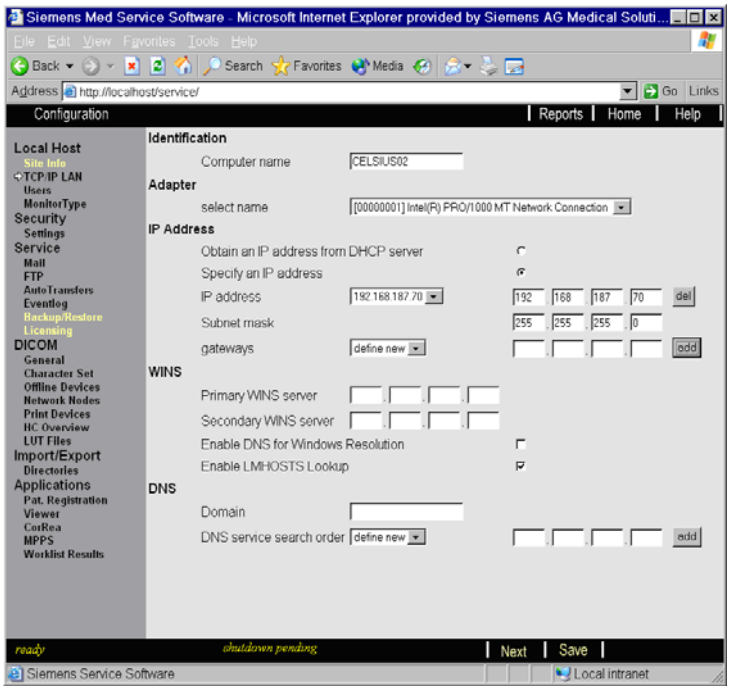


Fig. 14 Enter IP address and subnet mask

NOTE	**If any IP address is defined that is not used for testing purposes it should be deleted.**

6. A message appears - click **OK**.

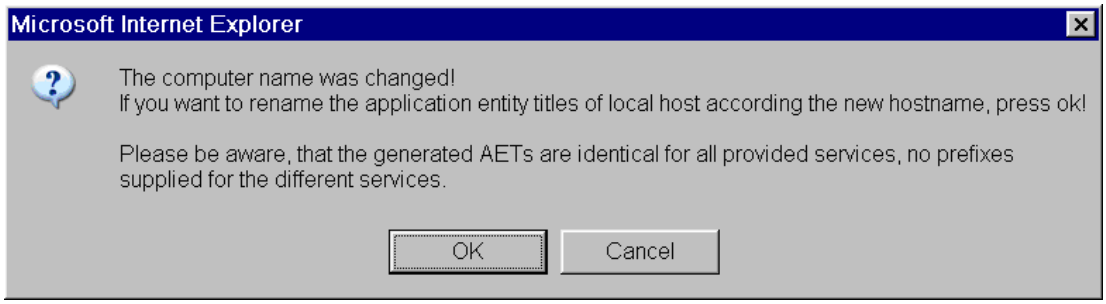

Microsoft Internet Explorer
The computer name was changed!
If you want to rename the application entity titles of local host according the new hostname, press ok!
Please be aware, that the generated AETs are identical for all provided services, no prefixes supplied for the different services.
OK
Cancel

Fig. 15 Question: Computer name has changed

7. The next dialog window appears - click **OK**.

Microsoft Internet Explorer
The change is only consistently saved after reboot!
Use only home button of service ui to start shutdown and make new hostname valid.
OK

Fig. 16 Warning: The change is only consistent after reboot

NOTE	**It is not necessary to reboot the system or restart the application immediately when it is recommended from syngo. You can make further changes and reboot later.**

8. The progress bar is activated and the message **please wait** is shown: wait until the changes are finished and the next message box appears.

Fig. 17 Message: Local host data successfully saved

9. Click **OK** - **ready** and **shutdown pending** appear on the info bar.
10. Click **Next** on the action bar.

Users

1. Check the checkbox **Enable Auto login**.
2. Enter the password for the administrator; enter this also in the confirm box.
3. Click on **Save** and after saving is completed click on **Next**.

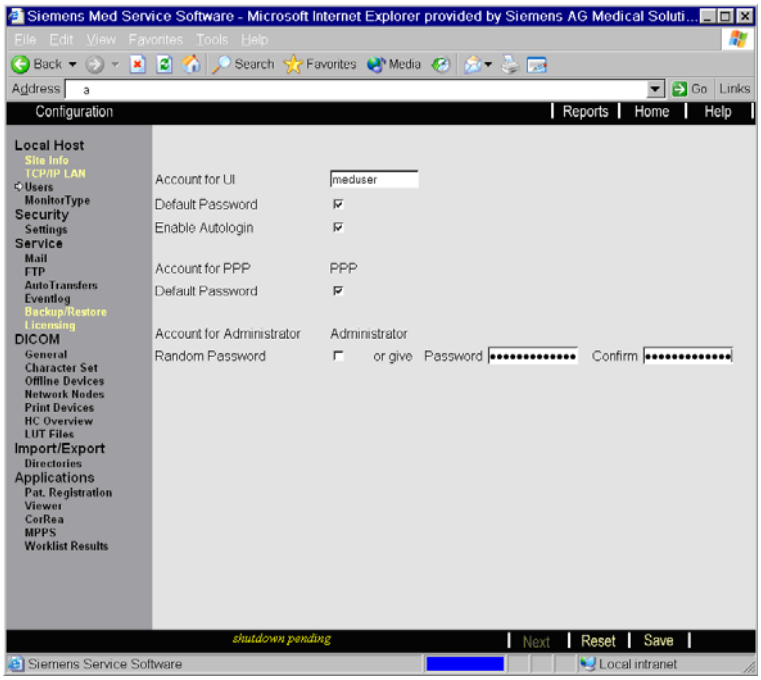


Fig. 18 Give Administrator Password

4. On page **Monitor Type settings** only click **Next**.
5. Configuration opens page **Security / Settings** and is trying to retrieve the security data from the system. This will fail because at this stage no security settings can be made.

Fig. 19 Warning: Retrieve of security data failed

6. Ignore the warning: Click **OK** and go on with **Next**.
7. No further configuration of service data is necessary at this point. (Backup/ Restore will be completed later.) Therefore click **>** or **Next** on the pages:
   - Mail
   - FTP
   - Auto Transfers
   - Event log

Configuration of DICOM Settings

General

1. The local application entities titles are shown.
2. Change **HIS / RIS** and **Study Transfer** to **<computer/station name>**.
3. Change **Printer** to **SCR_SYNGO**.
4. Click on **Save**.

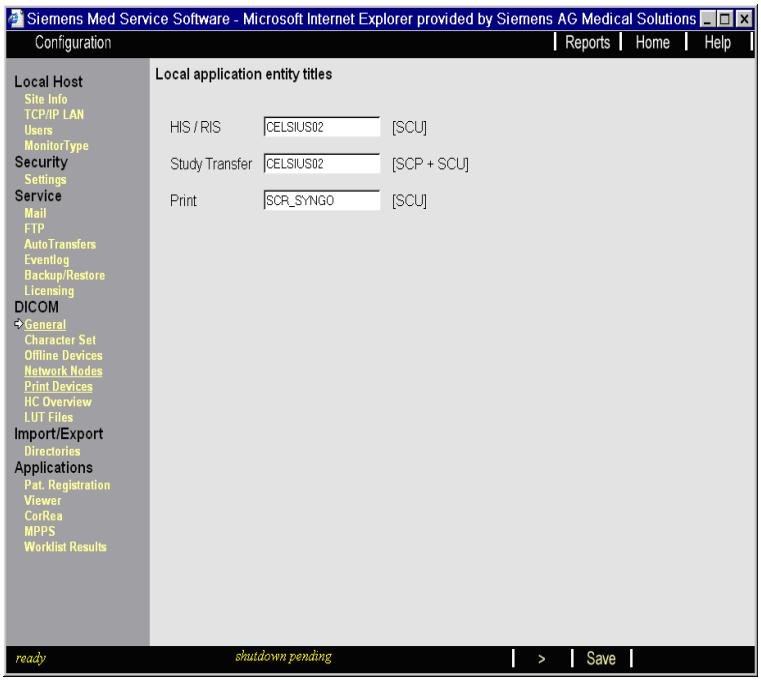


Fig. 20 DICOM General

5. After saving, a message appears - click **OK**.

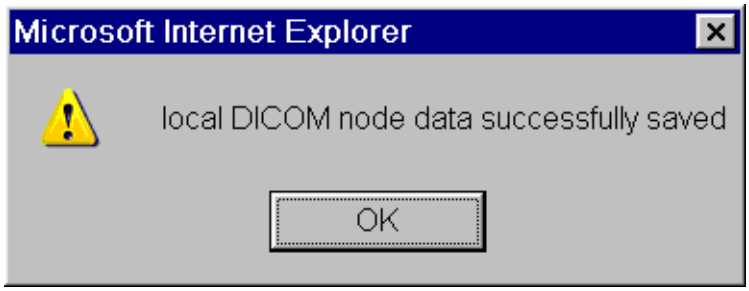


Fig. 21 Message: Local DICOM node saved

6. Click on **>** on the action bar to reach the page **General DICOM Settings**. Do not make any changes - click **Next**.
7. On page **Character Set** do not change anything - just click on **Next**.

Offline Devices

1. **querying device list...** is shown on the progress bar. Wait until querying the **DICOM / Offline Devices** is finished.

NOTE	**If an error message appears regarding locking failure, skip section "Offline Devices" here and perform it in chapter "Configuration of Security Settings" (see page 5 - 22).**

2. Under **Select logical name,** the default **define new** should be selected.
3. Enter Logical Name: **DVD** with the following values:
   - select Drive Type: **CD-ROM drive**
   - select default is checked
   - select Drive Letter: **D:**

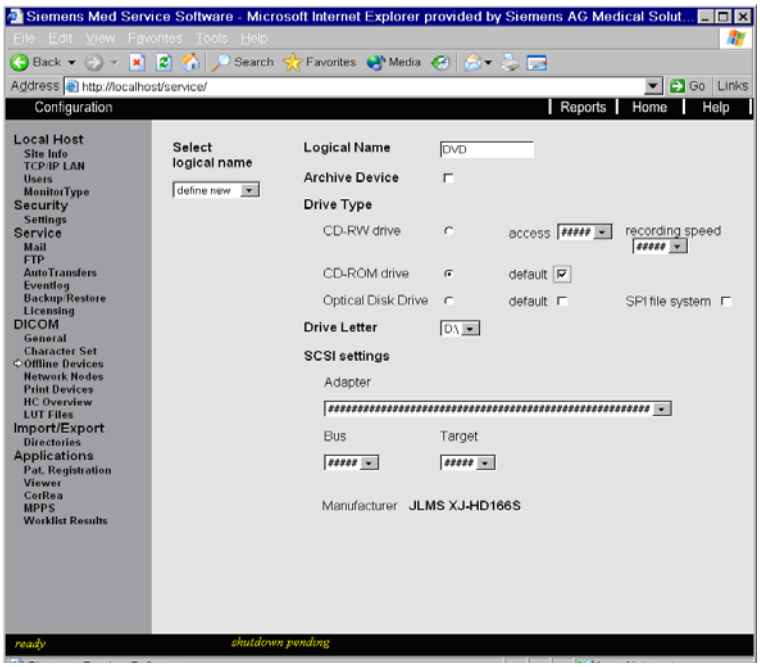


Fig. 22 Offline Device DVD

4. Click on **Save** and wait for the following message:

Fig. 23 Message: Device properties successfully saved

5. Click OK and select logical name **define new** again.

6. Enter Logical Name: **CDWRITER** with the following values:
   - select Drive Type: **CD-RW drive**
   - select access: **READ/WRITE**
   - select recording speed: **>=16X**
   - select Drive Letter: **E:**

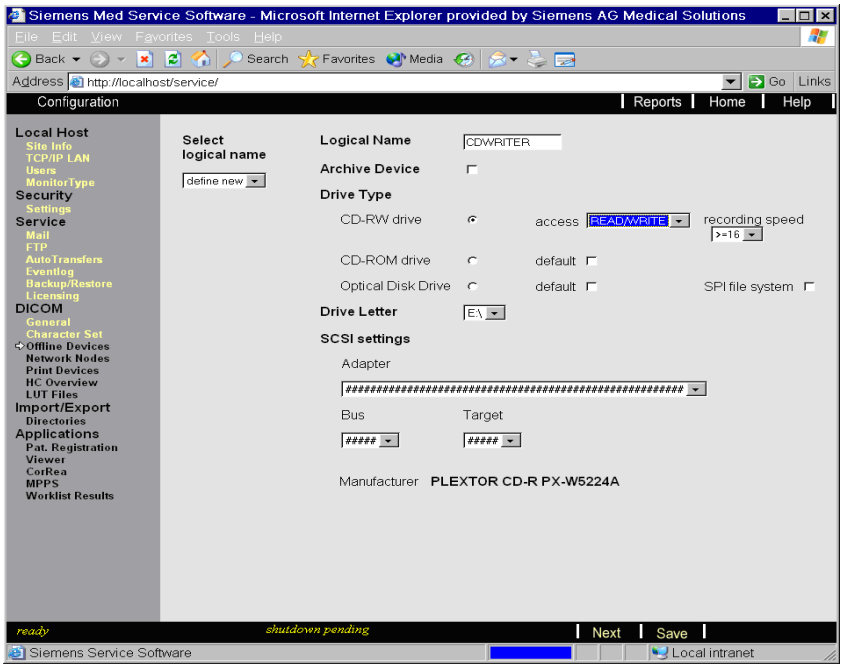


Fig. 24 Offline Device CDWRITER

7. Click on **Save** and wait for the following message:

Fig. 25 Message: Device properties successfully saved

8. Click OK and then Next to reach the following configuration chapter.

Network Nodes

For testing purposes host, logical name, AET and Port must be configured.

NOTE	**The host name is always stored in small letters.**

1. Define new:
   - Host Name **<computer/station name>**
   - **TCP/IP address** of the computer in the local network
   - check **connected by LAN**

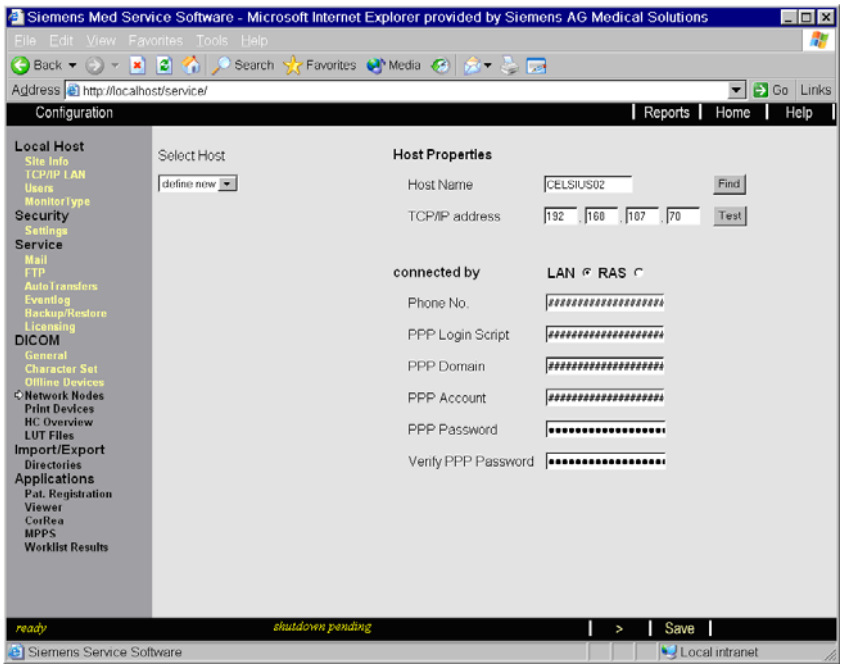


Fig. 26 Define new Host

2. Click on **Save** and wait for the following message:

Fig. 27 Message: host properties successfully saved

3. Click **OK** and afterwards click on **>**.
4. Page **General Node Properties** appears.
5. Click **Next**.
6. No entries or changes for **Print Devices**, **HC Overview** and **LUT Files** are necessary. Therefore click **Next** or **>** on the following pages to proceed with the initial setup.

Configuration of Import/Export Directories

1. On the first page just click on **>**.
2. Select logical HD device: **CDR_OFFLINE**.

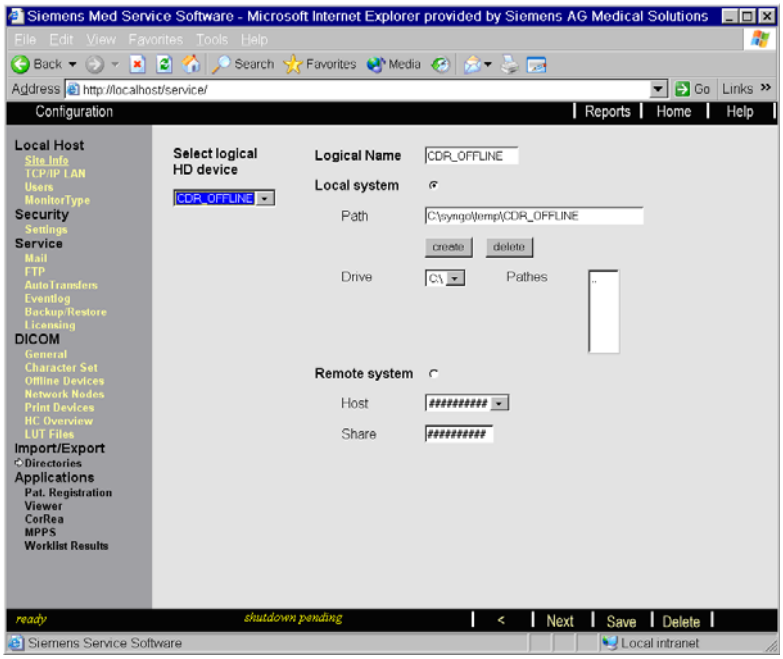


Fig. 28 CDR_OFFINE

3. Check whether **Local System** is selected and that in Path **C:\syngo\temp\CDR_OFFLINE** is shown. If the correct path is not shown:
   - select Drive C:\ and select in Path syngo ⇒ temp ⇒ CDR_OFFLINE
   - check that Path shows C:\syngo\temp\CDR_OFFLINE
4. Click on **Save** - a message appears:

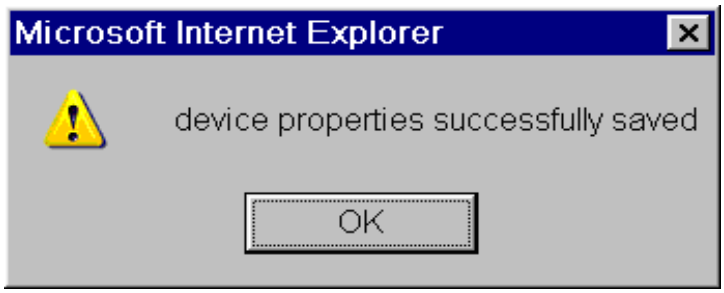


Fig. 29 Message: Device properties successfully saved

5. Click on **OK** and **Next** on the action bar - the configuration is continued with the section Applications.

Applications

The setup of application settings (except Viewer) is not possible because these applications are not installed. Therefore some warning messages appear when going through the initial setup step by step.

1. Click **OK** on the following warning.

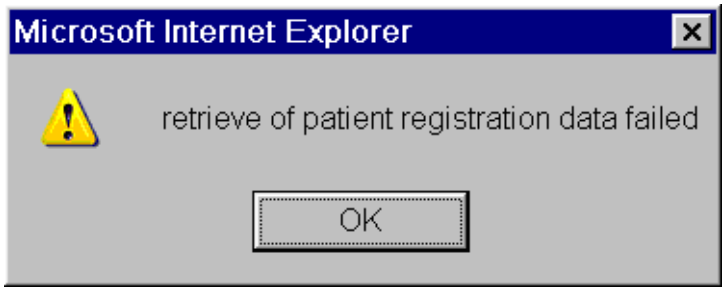


Fig. 30 Warning: Retrieve of patient registration data failed

2. Click **Next** on **Patient Registration** page.
3. Click **Next** on page **Viewer configuration settings**.

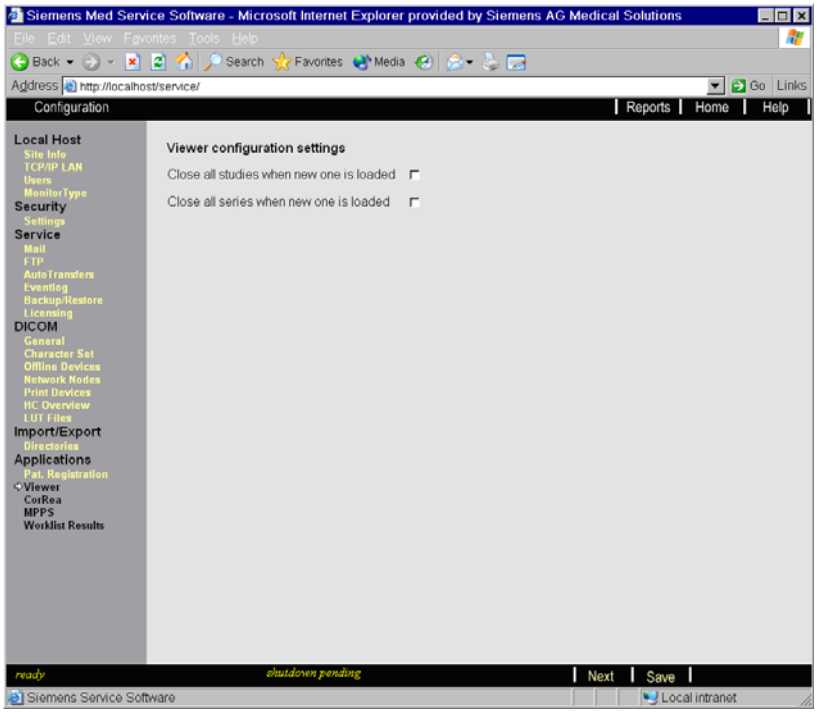


Fig. 31 Viewer Configuration Settings

4. Click **OK** on the following warning.

Fig. 32 Warning: Retrieve of CorRea data failed

5. Click **Next** on **CorRea** page.
6. Click **OK** on the following warning.

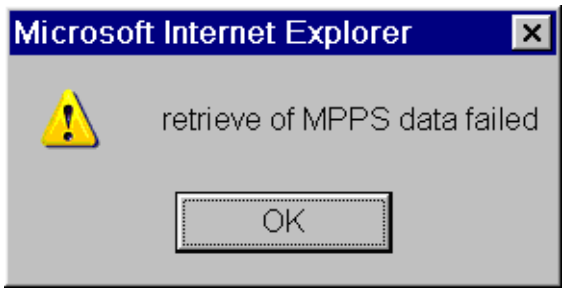


Fig. 33 Warning: retrieve of MPPS data failed

7. Click **Next** on **MPPS** page.
8. Click **OK** on the following warning.

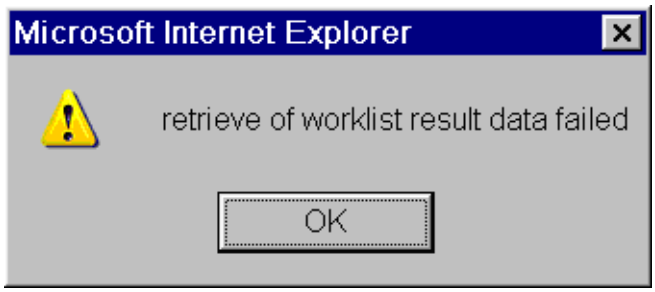


Fig. 34 Warning: Retrieve of work list result data failed

9. Click **Finish** on **Work list result** page, only configuration selection frame is active.

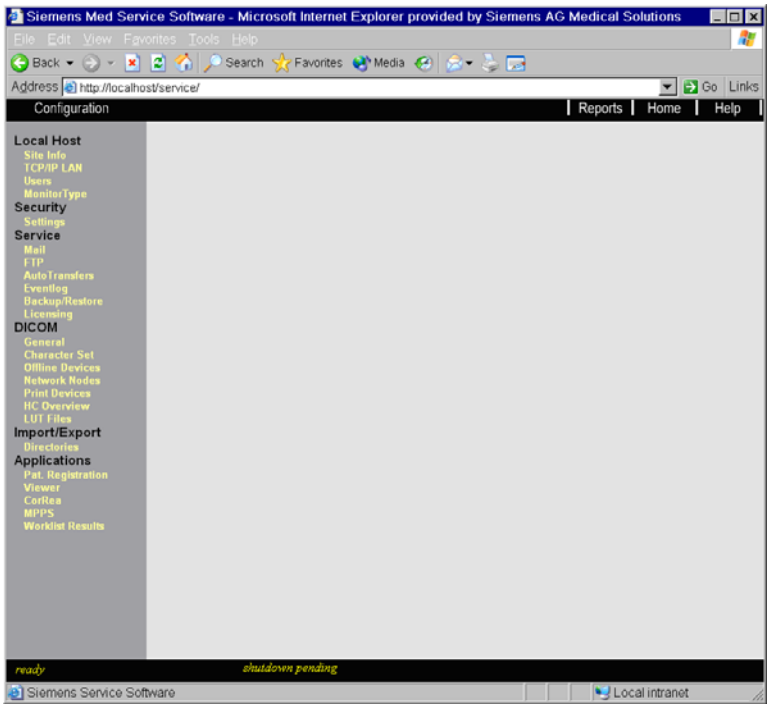


Fig. 35 Finish configuration

Check Configuration of Backup & Restore: SCR Package

1. Go to **Service / Backup&Restore**.
2. Select package **SCR** and check that group Database is available.
3. Select group Database and check that files and directories contain **C:\MBCSCR\syngoBackup**.

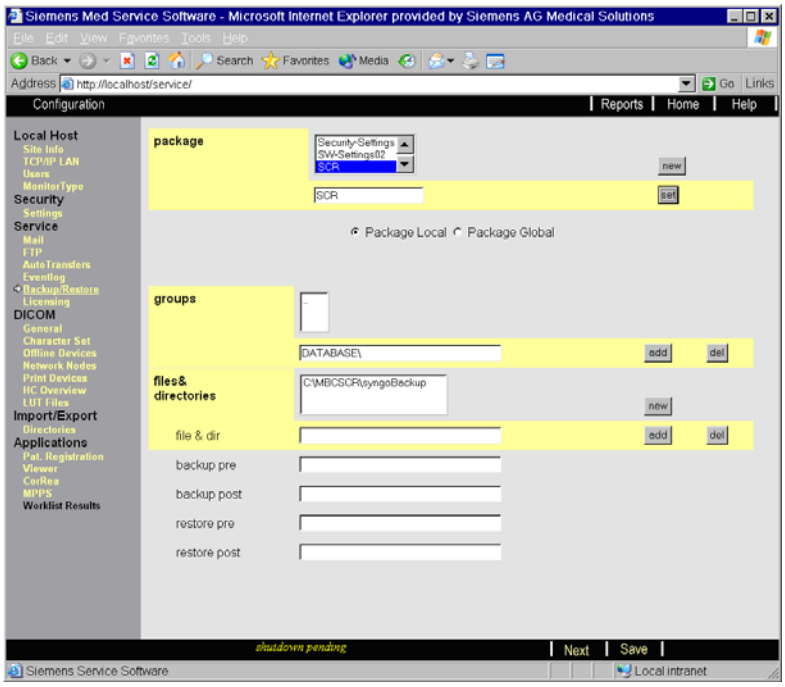


Fig. 36 Backup & Restore Group DATABASE

4. Click **Save** on the action bar.
5. If the following message appears, confirm with **OK**.

Fig. 37 Information message

6. A new message comes up.

Fig. 38 Message: Save completed

7. Click **OK**.
8. Click on **Finish** on the action bar and then on **Home** on the navigation bar.

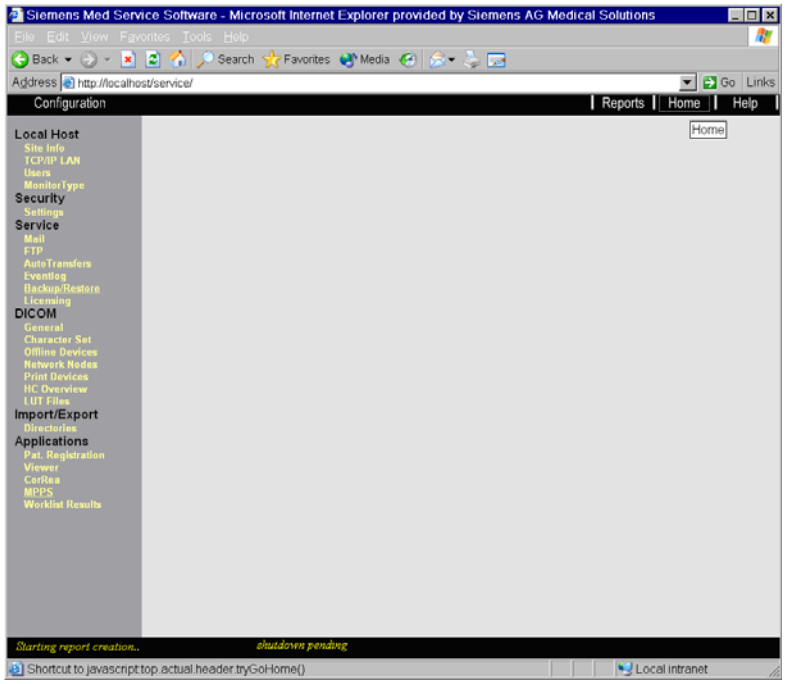


Fig. 39 Starting Report creation

9. Report creation is started automatically. Please wait until message box appears:

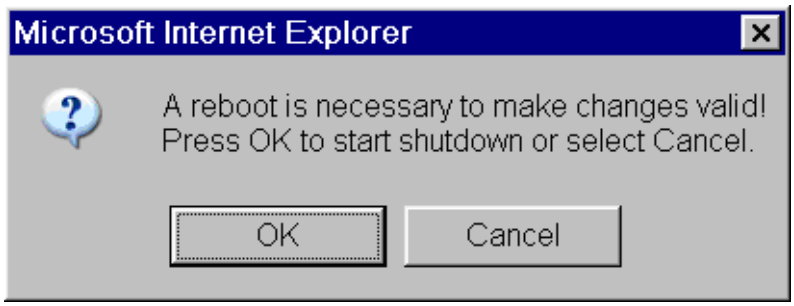

Microsoft Internet Explorer
A reboot is necessary to make changes valid!
Press OK to start shutdown or select Cancel.
OK
Cancel

Fig. 40 Question: Reboot is necessary

10. Click **OK**. Shutdown of syngo begins - be patient. The **restart of syngo** will take about **20 min**.

Caution!	**Do not touch keyboard or mouse while booting until the MammoReport background window appears on high resolution monitors.**

Configuration of Security Settings

The start procedure of syngo is finished when MammoReport Background window is shown on HR monitors and the syngo viewer user interface is displayed on syngo monitor.

NOTE	**Login window is not shown as long as user management is not checked in security settings.**

1. Open Menu **Options** ⇒ **Service** ⇒ **Local Service**: Authentication window is shown: **Enter the service key** you noted before; the first 14 digits into the large field and the last 6 digits into the small field and click **OK**.

NOTE	**For update systems use the service key from the special CD.**

2. Click on service function **Configuration**.
3. Select **DICOM General**. Check that Print shows entry “SCR_SYNGO” (see Fig. 41).

4. If not, enter SCR_SYNGO and click **Save**.

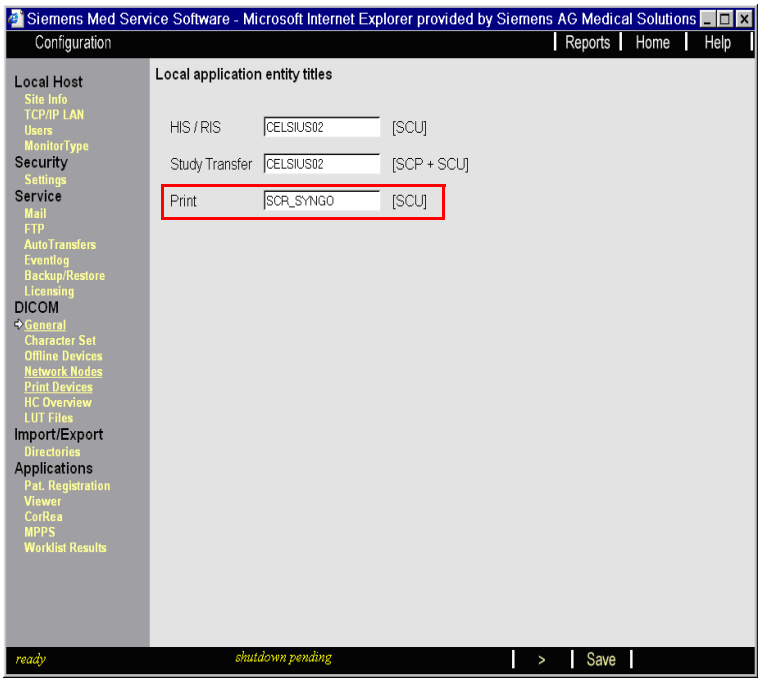


Fig. 41 DICOM General

5. Click **Next** and go to **Security / Settings**.

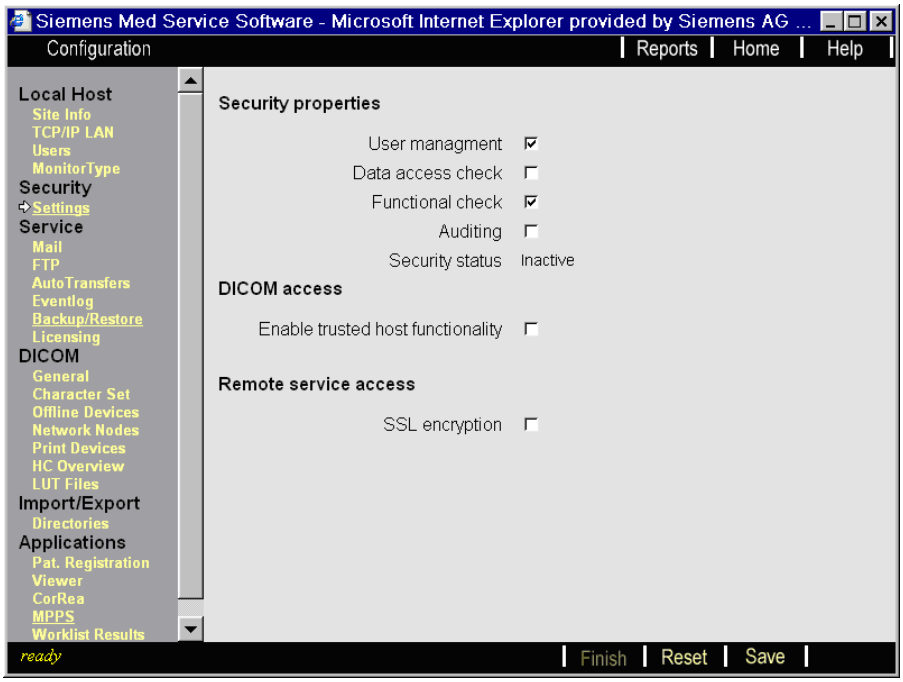


Fig. 42 Security Properties

6. Check **User management** and **Functional check**; click **Save**.

7. A Message appears - click **OK**:

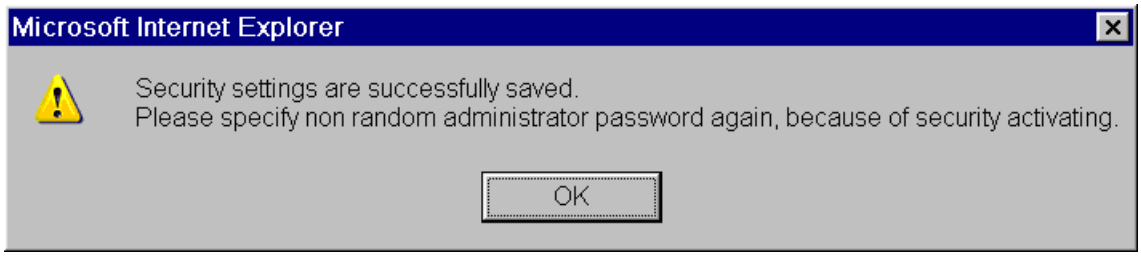

Microsoft Internet Explorer
Security settings are successfully saved.
Please specify non random administrator password again, because of security activating.
OK

Fig. 43 Message: Security setting successfully saved

8. On the page for account settings enter the password again for Administrator, confirm with the same password and click on **Save**.

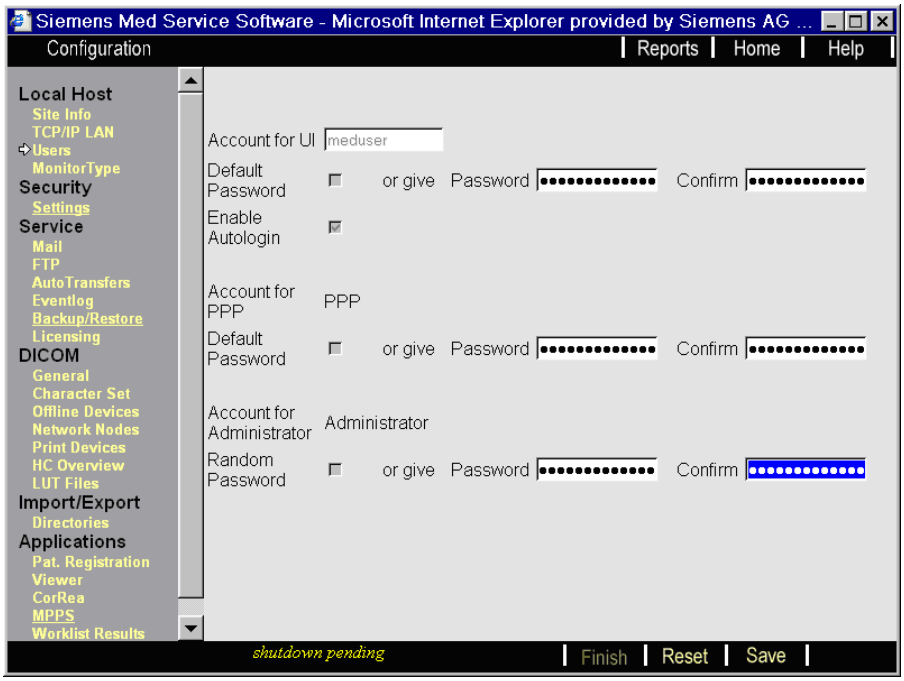


Fig. 44 Give Administrator password

NOTE **If Offline Devices could not be configured yet, perform this now (refer to chapter Offline Devices on page 5-12).**

9. Click **Finish** and then **Home**.
10. Report creation starts - wait for finish.
11. A message comes up recommending the next syngo reboot.

12. Remove any CD/DVD from D:\ or E:\ **before** you click on **OK**.

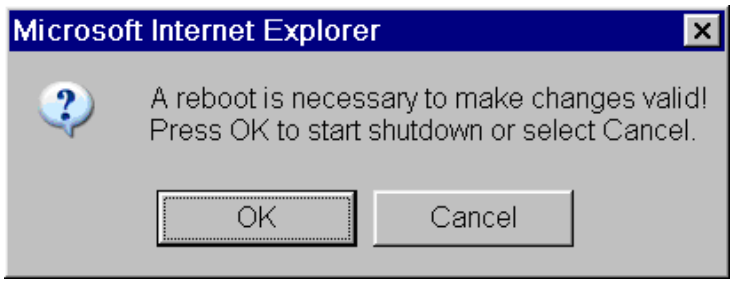

Microsoft Internet Explorer
A reboot is necessary to make changes valid!
Press OK to start shutdown or select Cancel.
OK
Cancel

Fig. 45 Question: Reboot is necessary

13. Click **OK** and the restart of syngo will finish at least with the **syngo login window**.

Finalize Initial Configuration

To finalize syngo configuration, some further settings must be performed.

1. Add in syngo **User Management:**
   - Group **Mammography**
   - Role **Radiologist**
2. Add in **SCR Service** the license keys for SCR features.
3. Check the **Online Help**.
4. Configure **Browser**.
5. Configure **Search window**.

Settings in syngo User Management

1. Log in as syngo user **administrator** with password.
2. Open in main Menu ⇒ Options ⇒ Security Configuration ⇒ **User Management**.

NOTE	**If during installation in Chapter "Check User Management for existing Background User" errors appeared, this check is NECESSARY!**

3. Select_ "Users"._

4. The user “MBC_BACKGROUNDUSER” shall be available in the right window.

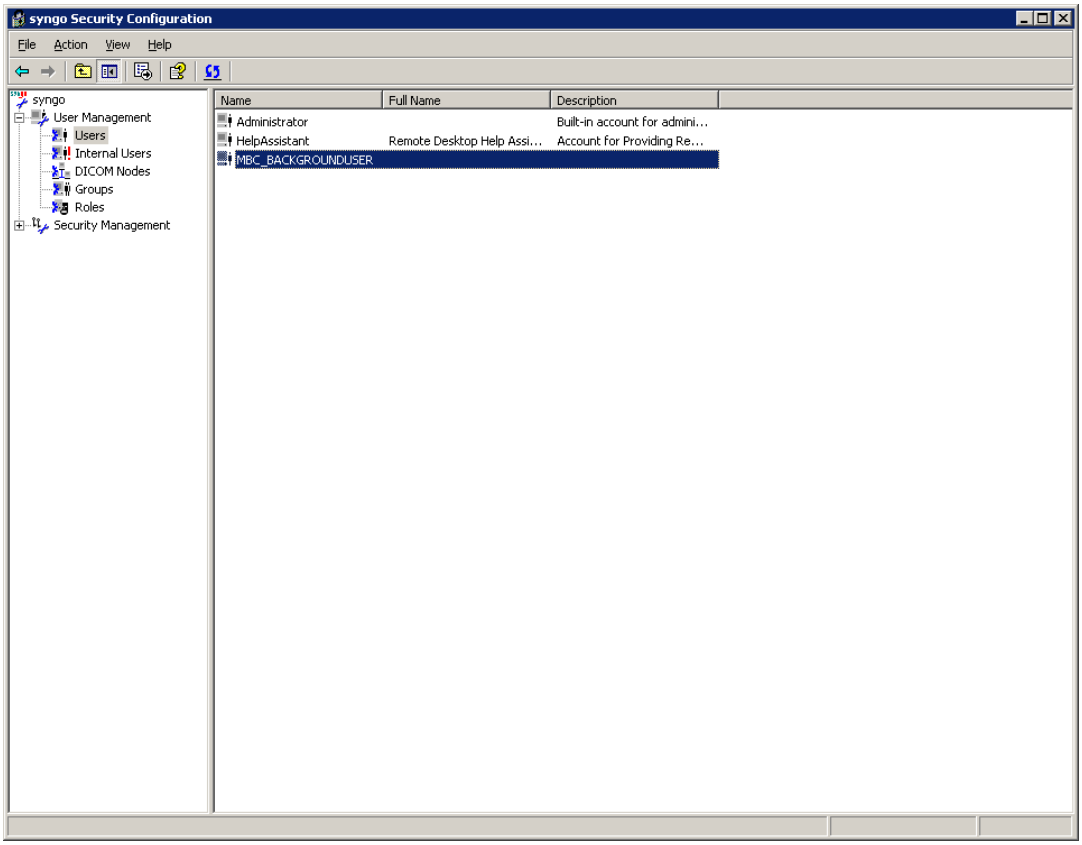


Fig. 46 Syngo Security Configuration window

5. Double click “MBC_BACKGROUNDUSER” and click on the tab “Member Of”. Under “Assigned”, DICOM_GROUP shall be mentioned.

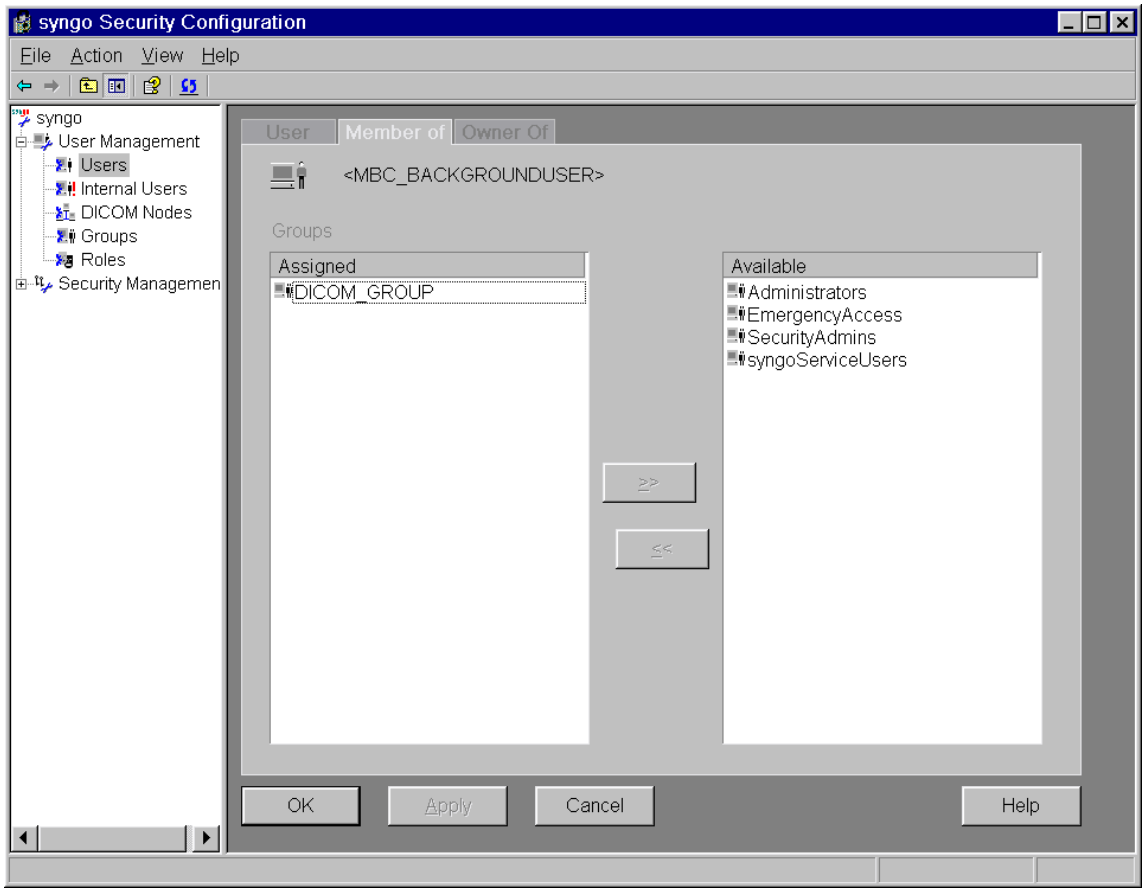


Fig. 47 Syngo Security Configuration window

6. Click on tab “Owner Of”. Under “Assigned”, DICOM_GROUP shall be mentioned as well.

Non Existent User

If the user in *Settings* step 4 is not existent (see Page 5 - 23), perform the following steps.

1. Create the user “MBC_BACKGROUNDUSER” manually with password.
2. Click on the tab “Member Of”. Select on the right side “DICOM_GROUP” and click on the << button.
3. Accept the appearing dialog with Yes.

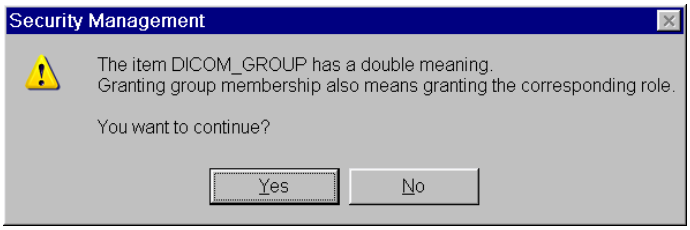

Security Management
The item DICOM_GROUP has a double meaning.
Granting group membership also means granting the corresponding role.
You want to continue?
Yes
No

Fig. 48 Security Management

4. The result shall be as shown.

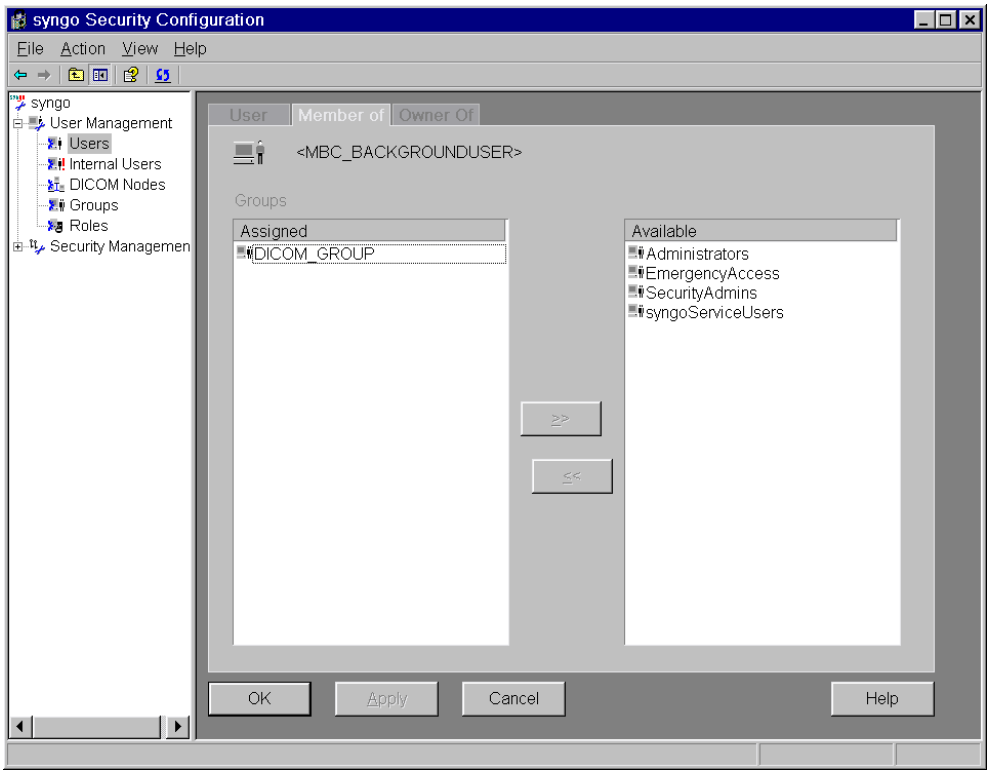


Fig. 49 Syngo Security Configuration window

5. Click on tab “Owner Of” and check that “DICOM_GROUP” is shown.

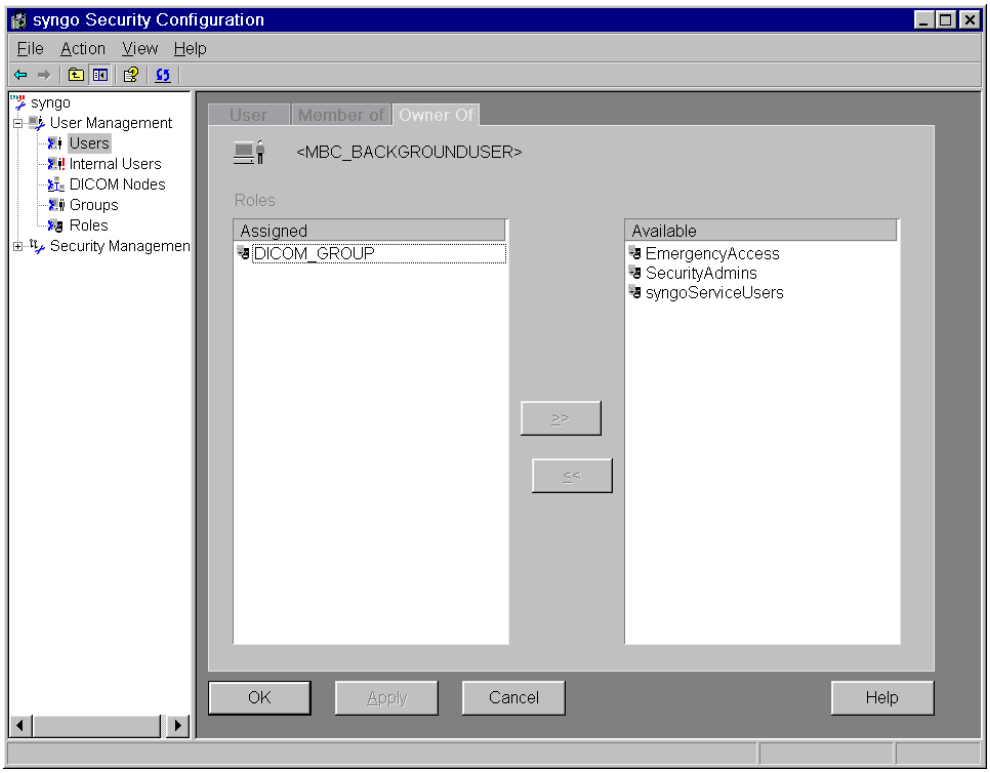


Fig. 50 Syngo Security Configuration window

No Present DICOM Group

If the DICOM_GROUP is not present in *Settings* steps 5 and/or 6 (see Page 5 - 23):

1. Display the user “MBC_BACKGROUNDUSER”.
2. Click on the tab “Member Of”. Select on the right side “DICOM_GROUP” and click on the << button.
3. Accept the appearing dialog with **Yes**.

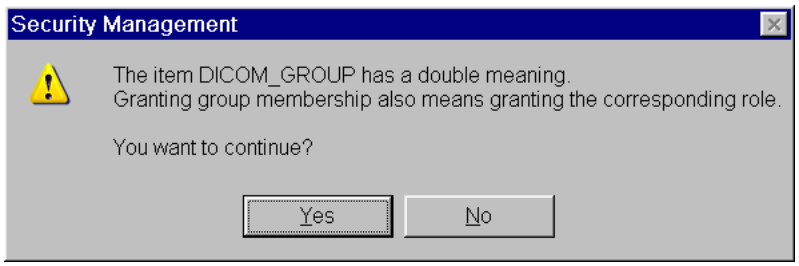

Security Management
The item DICOM_GROUP has a double meaning.
Granting group membership also means granting the corresponding role.
You want to continue?
Yes
No

Fig. 51 Security Management

4. The result shall be as shown.

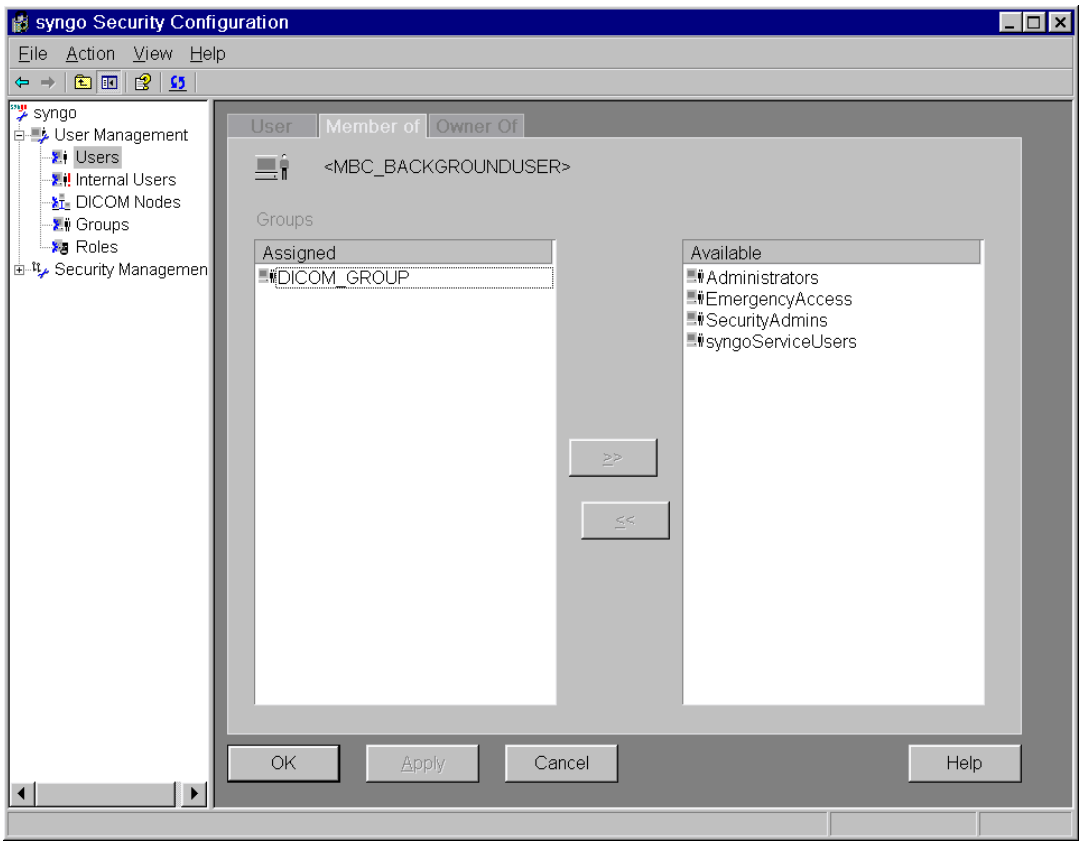


Fig. 52 Syngo Security Configuration window

5. Click on tab “Owner Of” and check that “DICOM_GROUP” is shown.

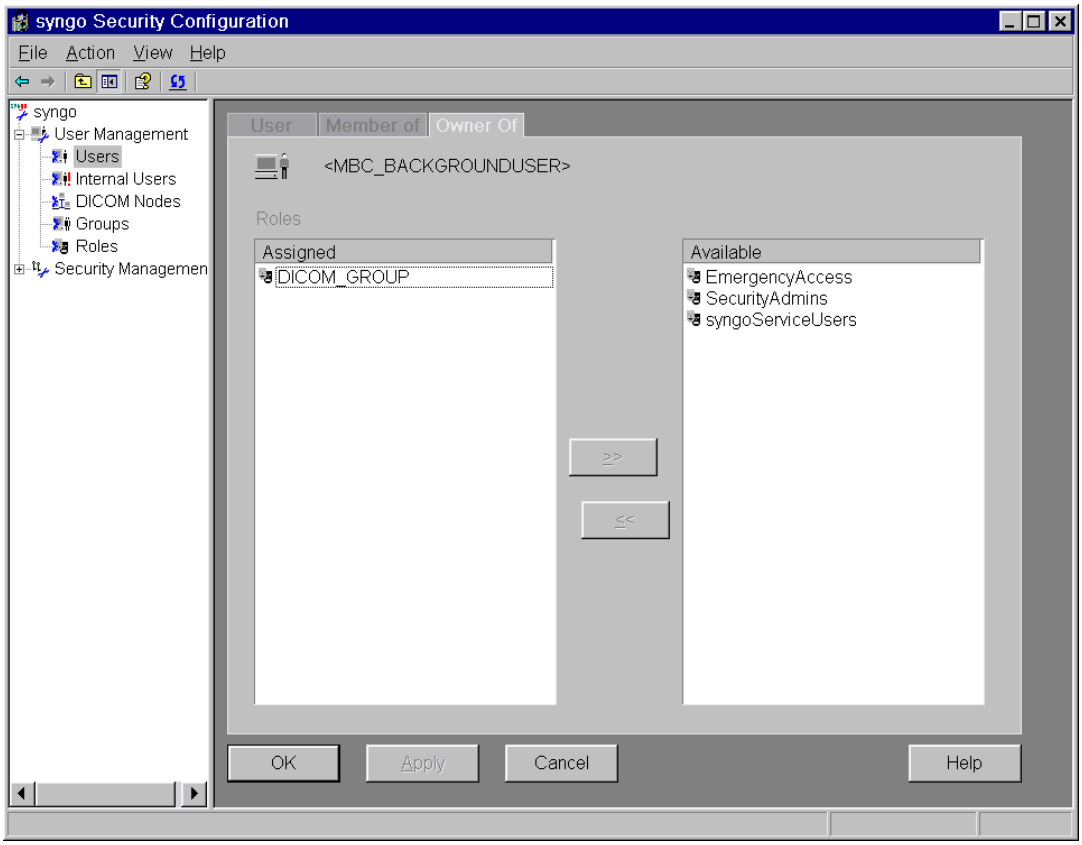


Fig. 53 Syngo Security Configuration window

6. Click on **Groups** in the tree view and open the context Menu with **right mouse click**.

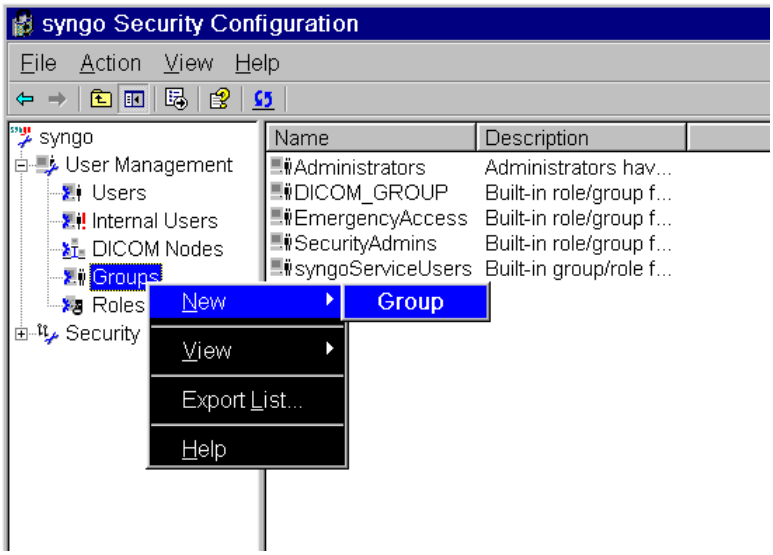


Fig. 54 Open Context Menu: Groups ⇒ New ⇒ Group

7. Open page Group with click on **New ⇒ Group**.

8. Enter **Mammography** in Name and Description - click **OK**.

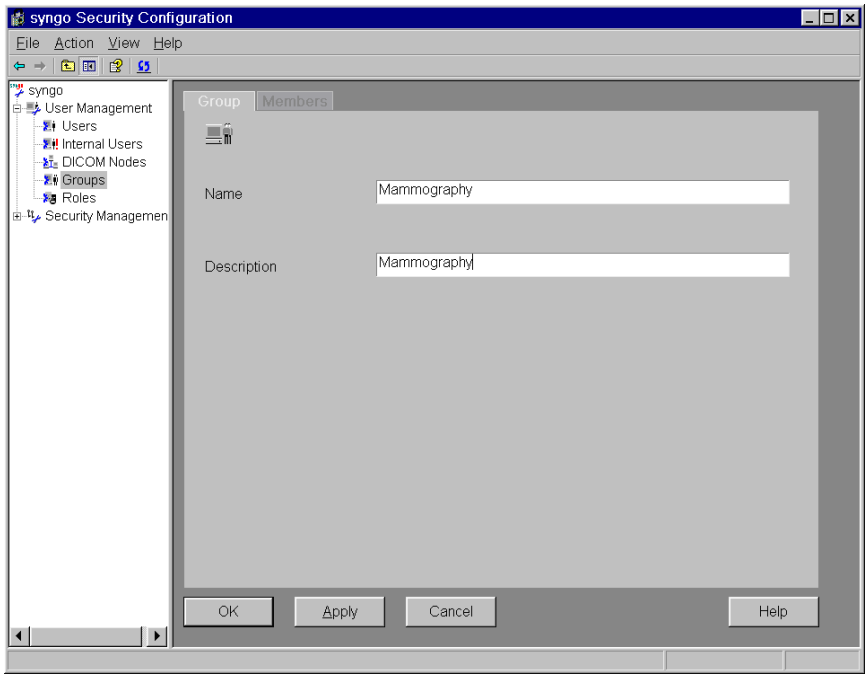


Fig. 55 Group: Mammography

9. Click on **Roles** and open the context menu with right mouse click.
10. Open page Role with click on **New** ⇒ **Role**.
11. Enter **Radiologist** in Name and Description - click **OK**.

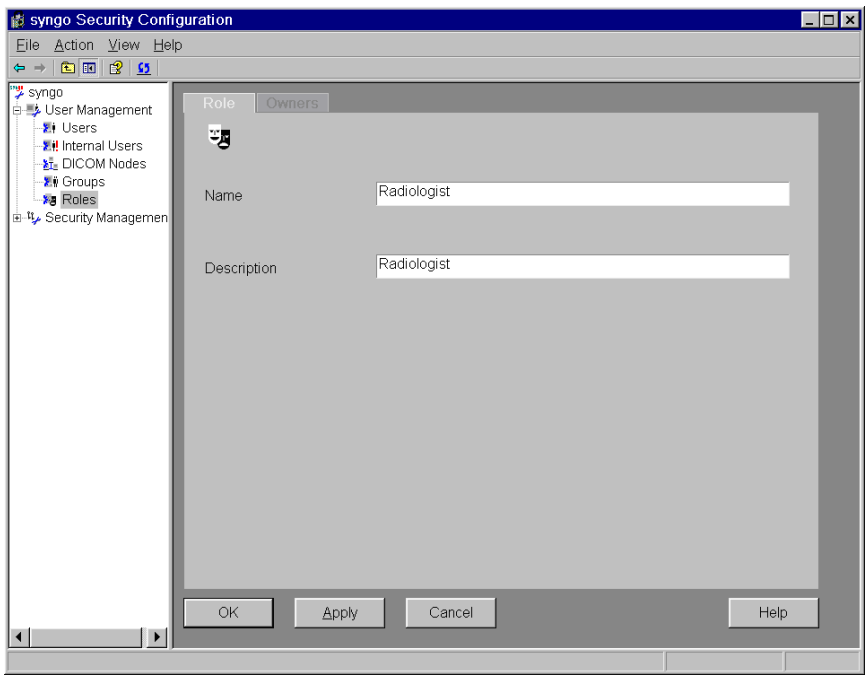


Fig. 56 Role: Radiologist

12. Close window Security configuration with click on **X**.

SCR Service: Enter License Keys

The MammoReport^{Plus} software licenses are protected by a dongle connected to the parallel port of the PC. Especially the main modules of the MammoReport^{Plus} system are protected with a dongle in conjunction with FlexLM™ software (by Globetrotter) integrated in these software modules.

NOTE	**The license number that is requested directly by the production line is delivered via file.**

To check the license number a manual procedure is necessary.

1. Log in to SCR Service from Patient browser Menu ⇒ Options ⇒ **SCR Service** with user name **service**; enter password.

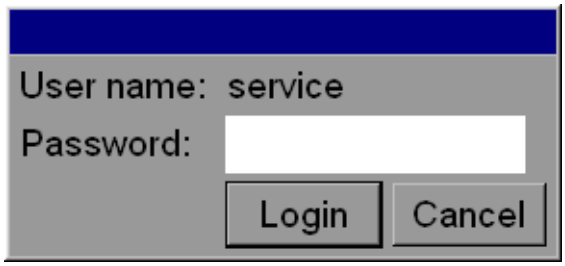


Fig. 57 Login Window

2. Click on tab **Licensing** to check the valid license number.

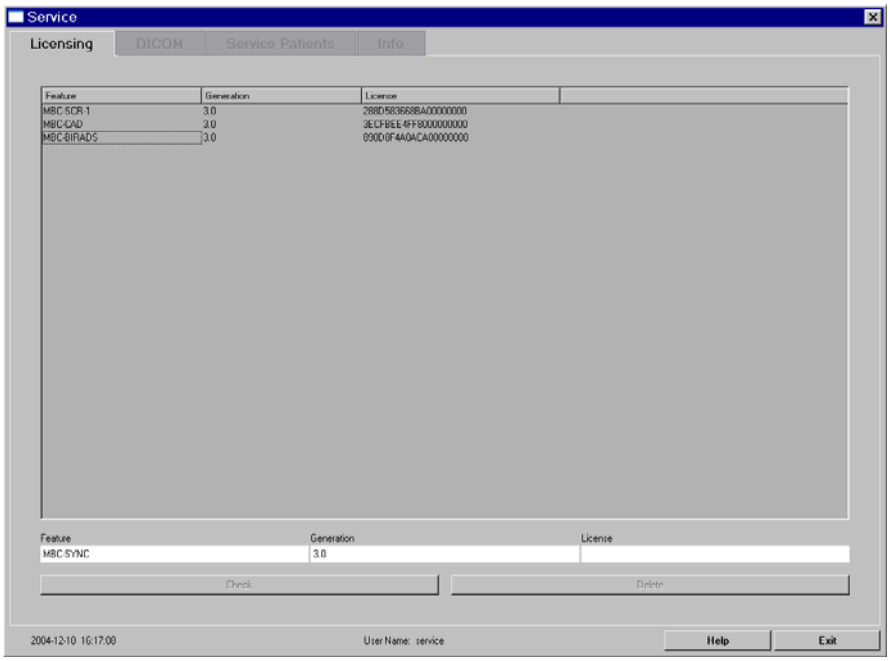


Fig. 58 SCR Service: Licensing

3. Enter in field **Feature** type **MBC-SCR-1**.
4. Enter in field **Generation** type **3.0**.
5. Enter in field **License** type the delivered license number (contains 20 characters).

6. Then click on **Check** - after that the valid license number will be listed in this window permanently.

NOTE	**The file license.dat includes all information concerning valid licenses that are already installed on the workstation during the installation process. The file is stored on drive C:\MBCSCR.**

7. If more licenses need to be entered, use the same procedure as described for MBC-SCR-1. The following features are available:
   - MBC-BIRADS / 3.0
   - MBC-CAD / 3.0
   - MBC-SYNC / 3.0

Check Online Help

1. Click on button **Help** - near Exit in the right corner.
2. Acrobat Reader opens with **Software License Agreement** window.
3. Click on button **Accept** and check that Siemens Online Help Mammo Report Plus is available.
4. Exit SCR Service with click on **Exit** button.

Configure syngo Patient Browser

1. Open syngo Patient browser from main Menu or with click on the button.
2. Select Patient browser Menu **View** ⇒ **Source** and deselect **1 Scheduler**.
3. The scheduler icon disappears from Patient browser desk top.
4. Close syngo Patient browser.

Configure Search Window

1. Open with main Menu ⇒ **Options** ⇒ **Configuration** the syngo Configuration Panel:

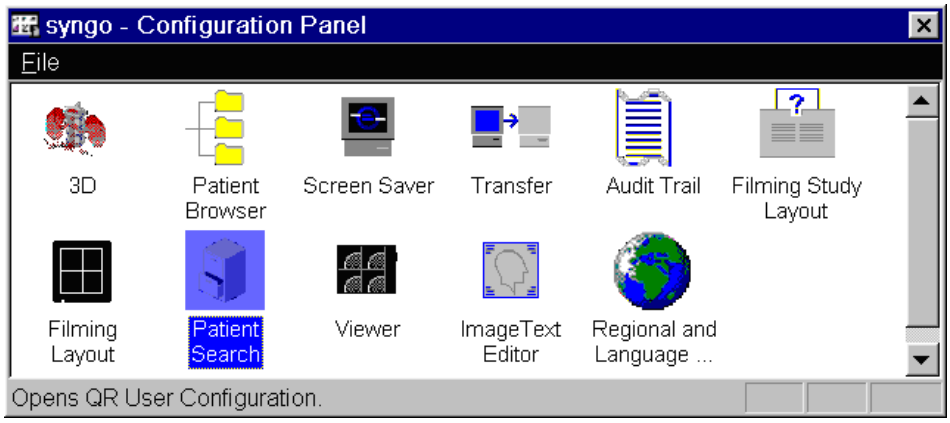


Fig. 59 syngo Configuration Panel

2. In syngo Configuration Panel, click on icon **Patient Search** - the window Patient Search Configuration opens.
3. Use **Modality list box** to scroll down until **Mammography** appears.

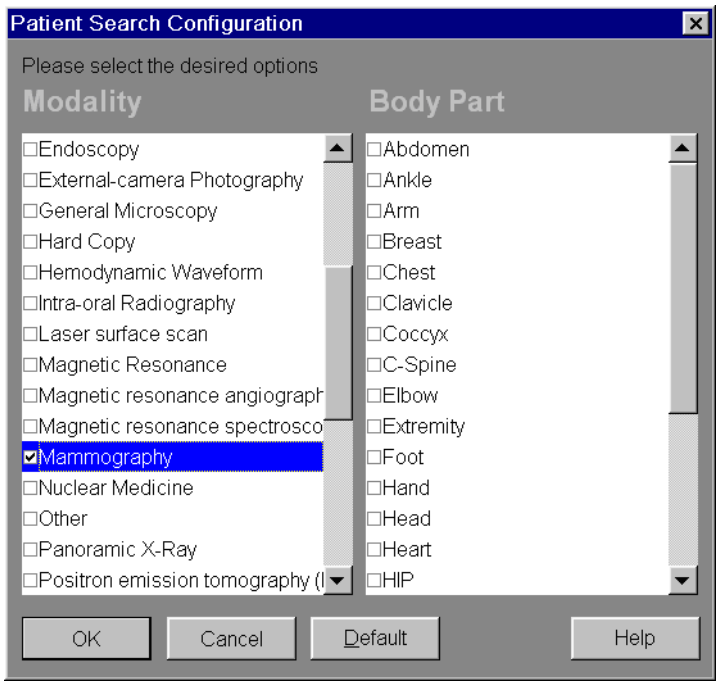


Fig. 60 Patient Search Configuration

4. **Check** Modality **Mammography** as additional search option.
5. Click **OK** and continue with Final Inspection Test.

NOTE	**Afterwards continue with "Installation and Start-up" (SPB7-420.814.20 ...).**

Check System Date and Time

1. **Restart** the workstation. During restart press **F2** to get access to **BIOS**.
2. On tab Main, check **System time** and **System date** and - if necessary - change them to the correct values.
3. On tab Security, check that **Start from IDE CD-ROM** is enabled.

NOTE	**After exiting the BIOS, the computer will restart automatically. Therefore be sure to have the DVD MammoReport VB10 at hand to insert it into DVD-ROM drive while the computer is restarting.**

4. **Save** and **exit BIOS** with key **F10**.
5. Confirm message with **Yes** = press return key and be prepared to insert the **DVD MammoReport VB10 for R610 Matrox TFT.**

Automatic Installation using Ghost

One installation DVD is necessary for the installation of the MammoReport^{Plus} software.

NOTE	**The Ghost software licences are only valid for computers where MammoReport^{Plus} software has to be installed. Do not use the software on other computers.**

1. Insert the **DVD MammoReport VB10 for R610 Matrox TFT** into the (top) DVD-ROM drive and boot the computer directly from DVD.
2. A **boot menu** appears on the screen.
   The menu consists of two steps:
   Microsoft Windows 98 Start menu
   1. Backup System drive
   2. Use Ghost interactive
3. Choose **2: Use Ghost interactive**
4. Click on to **Continue without marking drives** if this question is shown.
5. In **About** select **OK**.
6. Select in menu Local ⇒ Disk ⇒ **From image.**
7. In **Image file name to restore from** select **Look in:** drive R [...] CD ROM drive
8. Select file **610MTFT1.GHO**
9. In **Select local destination...**: choose **Drive 1** and confirm with **OK**.
10. In **Destination drive details** click **OK**.
11. Confirm question **Proceed with disk restore**... with **Yes**. Installation of image begins. **Progress indicator is running**, it takes about 10 min.
12. Message appears: **Clone complete**... ⇒ click **Reset Computer**.
    During restart **remove DVD** from DVD drive.

The computer starts from hard disk and the Windows XP Mini-Setup runs automatically to **make the system unique**.

WindowsXP starts and finishes with log in window.

- Log in as OS **administrator** with password. The Windows user interface will be displayed on the syngo monitor.

If the Windows Found New Hardware Wizard appears, click **Cancel**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Video Controller (VGA Compatible)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Fig. 1 Found New Hardware Wizard

- Check system date and time with double click on Windows task bar.
- Do **not** restart the computer now.

Checking Drive Assignments

This step is to ensure that the drives are properly assigned.

NOTE	**Data disks are not yet imported. Assigning and renaming of data disks is described in chapter Formatting Dynamic Disk Arrays on page 3-1.**

The partitions should be:

1. for system and applications: **MED_SYSTEM (C:)**
2. for **DVD drive (D:)**
3. for **CD-RW drive (E:)**

NOTE	**If the drive letters for DVD (D:\) and CD-RW (E:\) are not correct, then select Disk Manager to change the drive letters manually.**

If the drives are not correctly assigned, change the drive letters as follows:

1. Right mouse click on My Computer ⇒ Manage ⇒ **Disk Management.**
2. Right mouse click on **DVD-Drive** ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign … and select D:** from list.
3. Accept message box appearing; do **not** boot the computer now.
4. Right mouse click on **CD-ROM** (CD-ROM1) ⇒ Change Drive Letter and Paths ⇒ Change ⇒ **Assign … and select E:** from list.
5. Accept message box appearing.

Changing the Keyboard Driver

Perform in case of production with predefined language setting.

The MammoReport^{Plus} workstation is delivered with one of the following keyboards:

- US International keyboard:
  - Default input language: English (United States)
  - Installed service / Keyboard Layout: United States-International
- German keyboard:
  - Default input language: German (Germany)
  - Installed service / Keyboard Layout: German
- French keyboard:
  - Default input language: French (France)
  - Installed service / Keyboard Layout: French
- Spanish keyboard:
  - Default input language: Spanish (Spain)
  - Installed service / Keyboard Layout: Spanish
- Italian keyboard:
  - Default input language: Italian (Italy)
  - Installed service / Keyboard Layout: Italian
- Portuguese keyboard:
  - Default input language: Portuguese (Portugal)
  - Installed service / Keyboard Layout: Portuguese
- English keyboard:
  - Default input language: English (United Kingdom)
  - Installed service / Keyboard Layout: United Kingdom
- Swedish keyboard:
  - Default input language: Swedish (Sweden)
  - Installed service / Keyboard Layout: Swedish

NOTE	**To correct the fonts for Italian, Portuguese or Swedish keyboard run batch D:\batch\languages\import_<x>.bat, with x = italian, portuguese or swedish.**

To change the keyboard language, follow the steps below:

1. As user OS administrator select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.
2. In Control Panel click **Switch to Classic View** (if not already present, see Fig. 3).

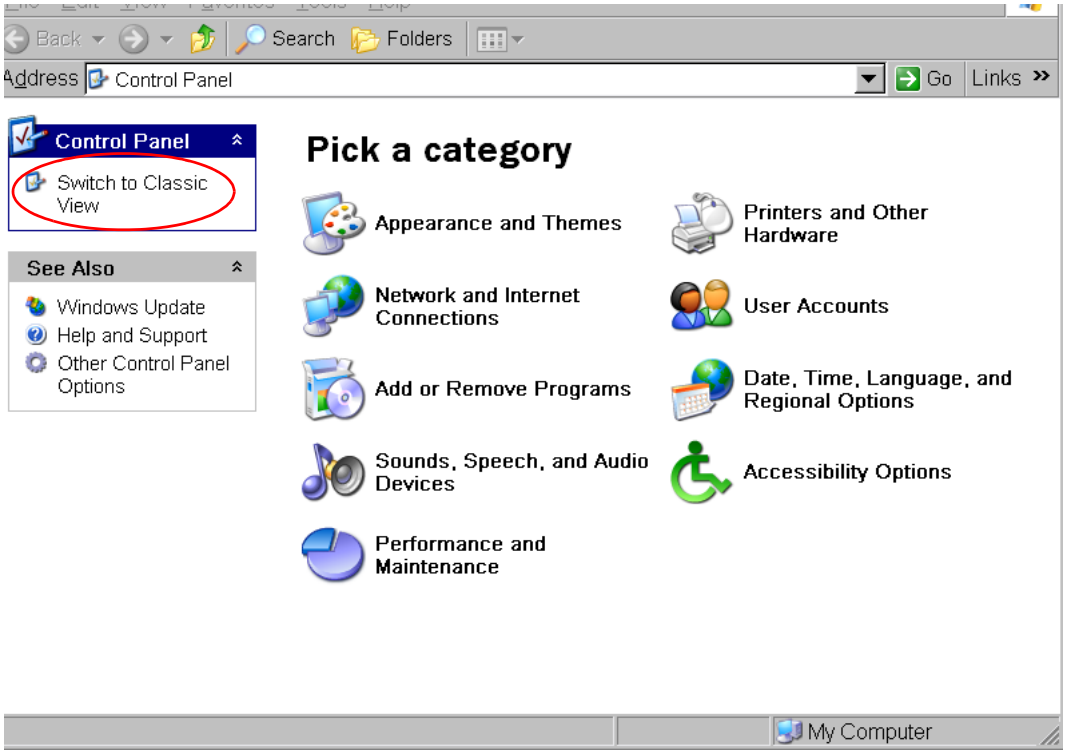


Fig. 2 Windows XP view

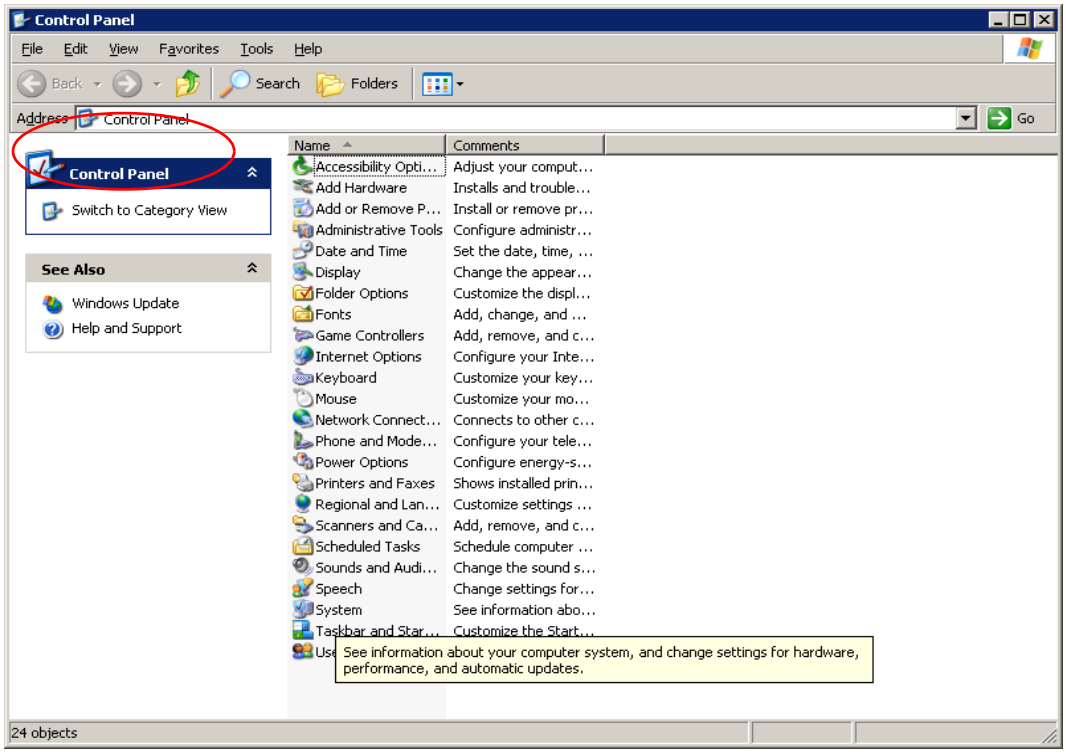


Fig. 3 Windows classical view

3. In list view, double click the icon **Regional and Language Options**.

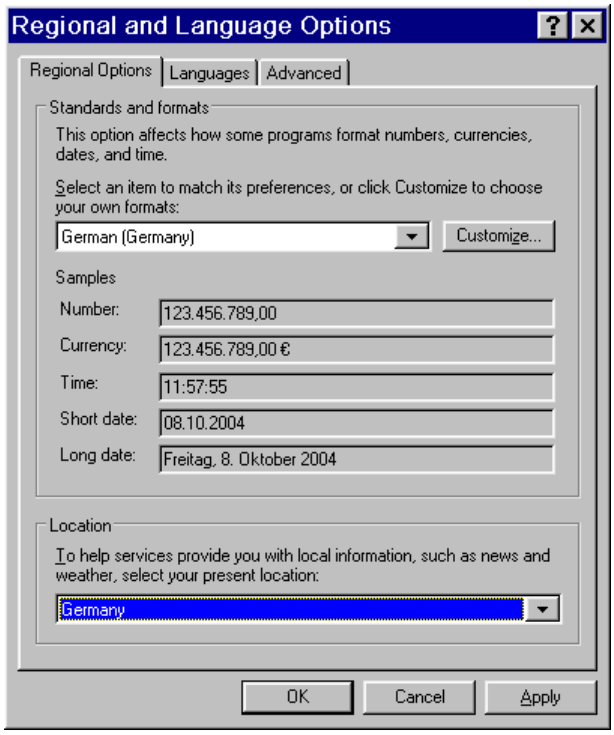


Fig. 4 Regional and Language Options

4. Choose **format** and **location** as required. Click **Apply**.
5. Click on tab **Languages**. Click button **Details**.

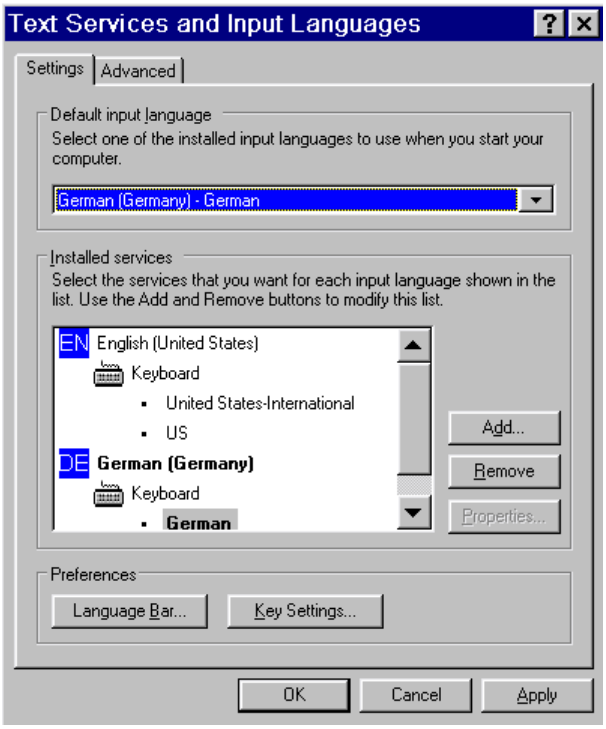


Fig. 5 Text Services and Input Languages

6. Select **Default input language** and **Installed service**s. Click **OK**.
7. Click OK again.

Restarting the System

1. **Restart** the workstation. During restart **press F2** to access the **BIOS**.
2. Enter password to enter BIOS.
3. On tab Security, **disable Start from Floppy**: Select **Start from Floppy**, press **return key**, select **Disable** and press **return key** again.
4. Disable **Start from IDE CD-ROM** in the same way.
5. **Save** and **exit BIOS** with key **F10**, confirm message with **Yes** = press return key.
6. **Restart** system and log in as **OS administrator**.

NOTE	**In spite of configured keyboard settings, the OS login window always uses the default keyboard (US international), the dollar sign "$" can be typed with SHIFT+4.**

If the Windows Found New Hardware Wizard appears, click **Cancel**.

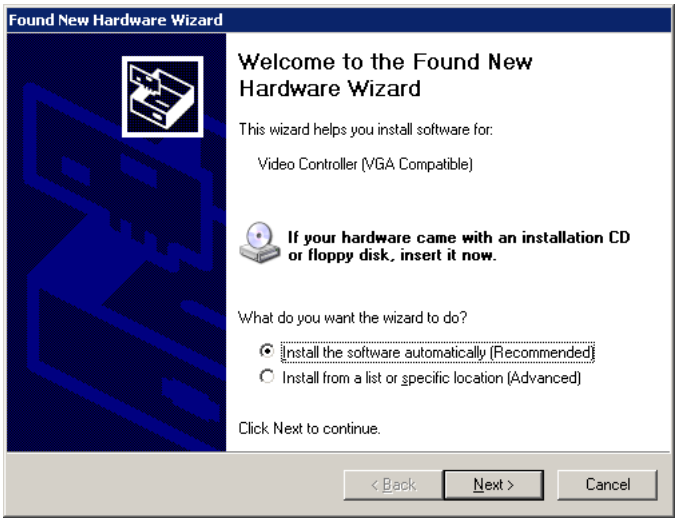

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Video Controller (VGA Compatible)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Fig. 6 Found New Hardware Wizard

Formatting Dynamic Disk Arrays

NOTE

In case of installation with 1 extra HD drive, the following procedure has to be performed. Ignore that the extra hard disk cannot be seen on the figures. Steps to perform are described on Page 7 - 5.

To format the dynamic disk arrays for data disks, the following steps have to be done manually:

1. Right mouse click on My Computer ⇒ Manage ⇒ **Disk Management.**
2. A wizard pops up. Click **Next**.
3. Mark all disks in checkboxes to apply signatures to them and click **Next**.
4. To upgrade them, click **Next** and then **Finish**.
5. The formatting process starts automatically.

NOTE

If you use hard disks that have not been formatted, skip the following steps 6-8.

6. Click on **Disk 1**.
7. Open context menu with right mouse click and convert to **Dynamic**.
8. Repeat this for **Disk 2** - now both disks are Dynamic.

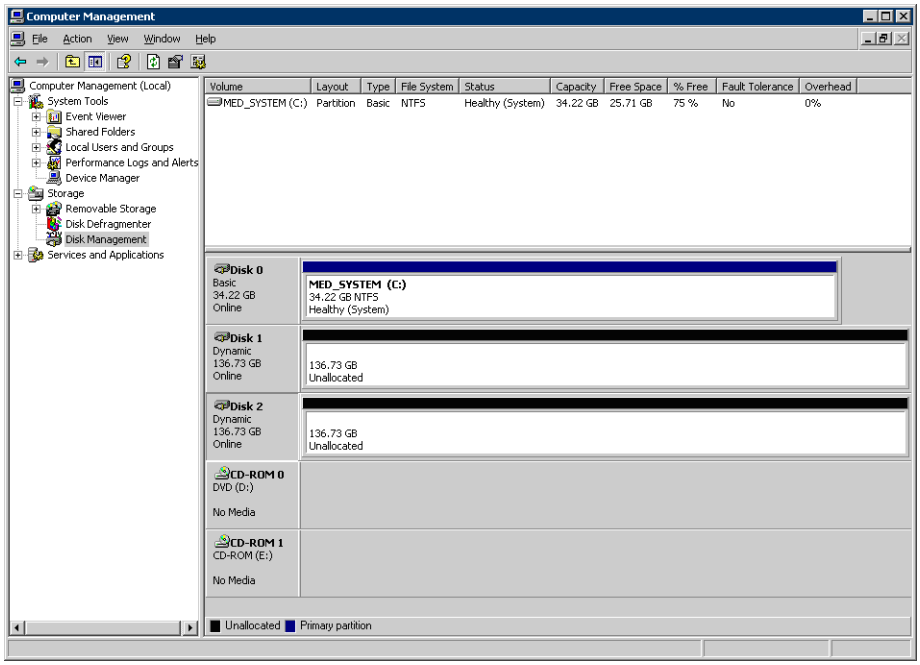


Fig. 1 Disk 1 and Disk 2 Dynamic

9. Right mouse click on Disk 1 ⇒ **New Volume**.

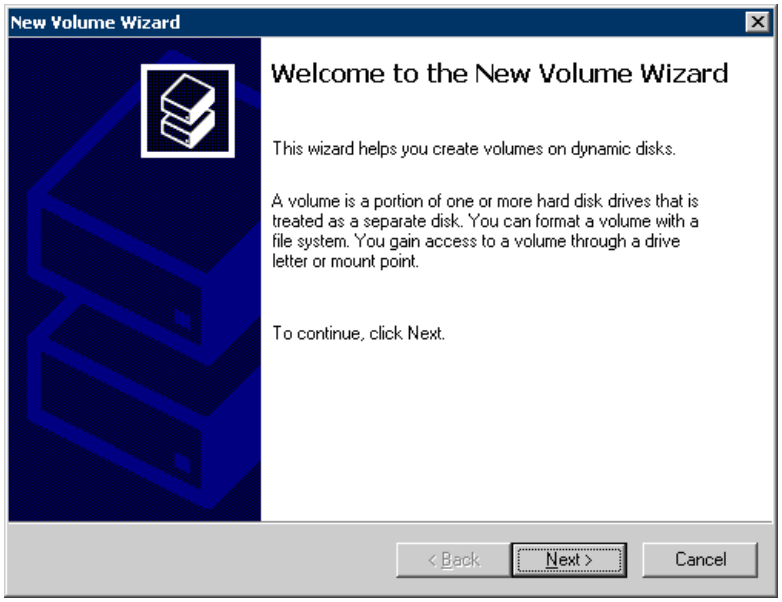

New Volume Wizard
Welcome to the New Volume Wizard
This wizard helps you create volumes on dynamic disks.
A volume is a portion of one or more hard disk drives that is treated as a separate disk. You can format a volume with a file system. You gain access to a volume through a drive letter or mount point.
To continue, click Next.
< Back
Next >
Cancel

Fig. 2 New Volume Wizard

10. Click **Next**.

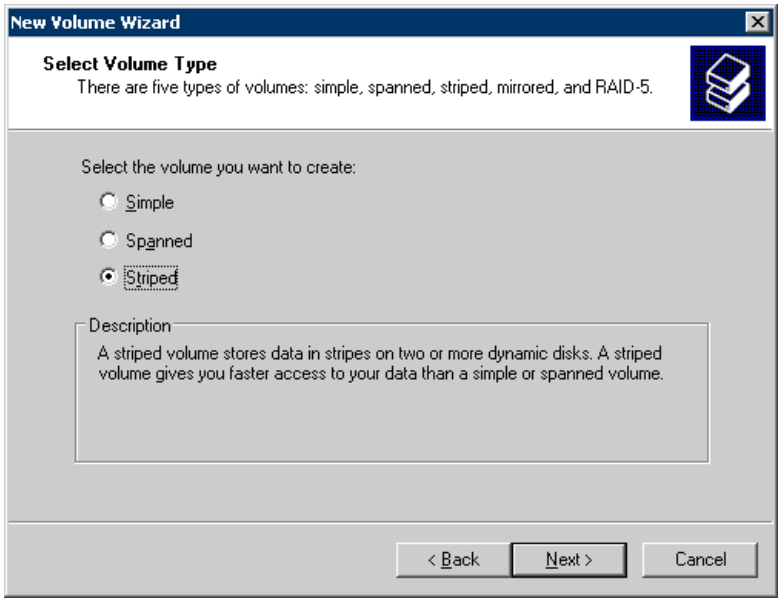

New Volume Wizard
Select Volume Type
There are five types of volumes: simple, spanned, striped, mirrored, and RAID-5.
Select the volume you want to create:
Simple
Spanned
Striped
Description
A striped volume stores data in stripes on two or more dynamic disks. A striped volume gives you faster access to your data than a simple or spanned volume.
< Back
Next >
Cancel

Fig. 3 Select Volume Type

11. Select **Striped** and click on **Next**.

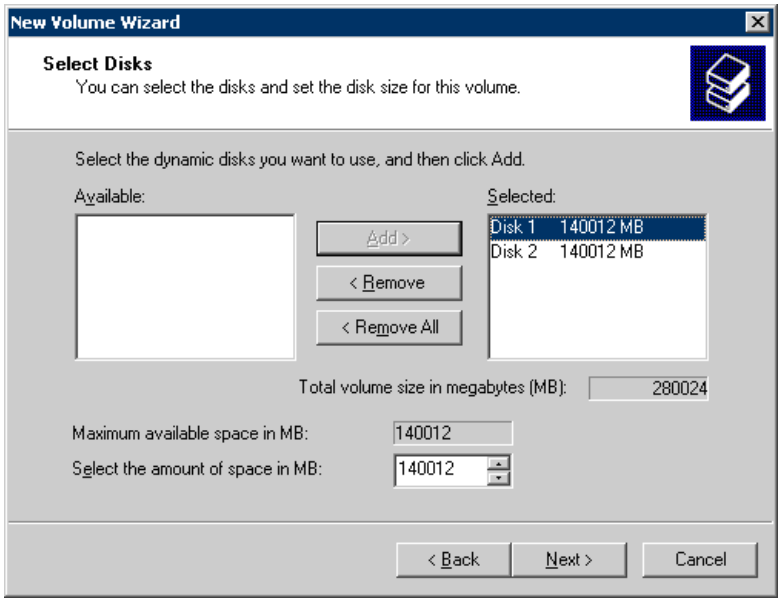

New Volume Wizard
Select Disks
You can select the disks and set the disk size for this volume.
Select the dynamic disks you want to use, and then click Add.
Available:
Selected:
Disk 1 140012 MB
Disk 2 140012 MB
Add >
< Remove
< Remove All
Total volume size in megabytes (MB): 280024
Maximum available space in MB: 140012
Select the amount of space in MB: 140012
< Back
Next >
Cancel

Fig. 4 Add Disk 2 to Selected Disks

12. Select **Disk 2** from Field **Available** and click on **Add**.
13. Click **Next**.

For System Type ***Basic***:
Drive **F** should be preselected in **Assign Drive Letter or Path**. If not preselected, select it and click **Next**.

For System Type ***Option***:
Change the selection in **Assign Drive Letter or Path** to drive letter **G**. Click **Next**.

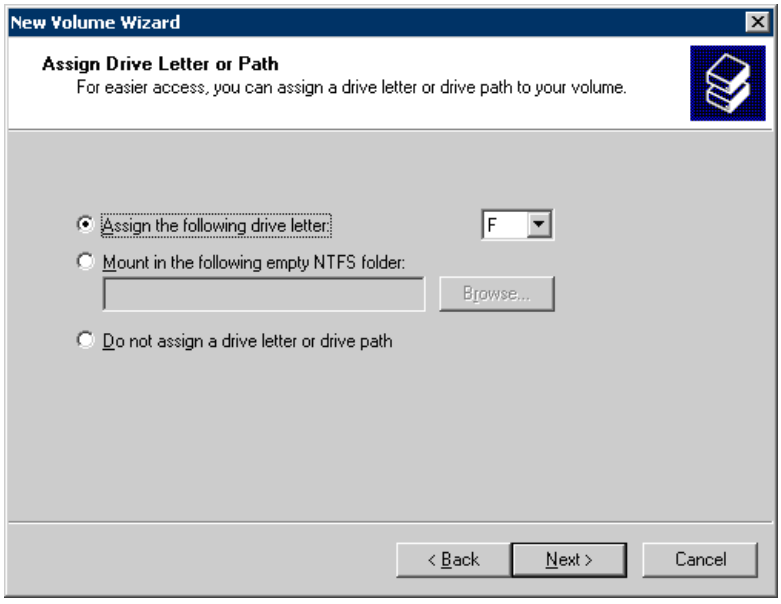

New Volume Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your volume.
Assign the following drive letter:
F
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

Fig. 5 Assign Drive Letter or Path

14. In **Format Volume** leave the default settings:
    - File System **NTFS.**
    - Allocation unit size **default**.

For System Type ***Basic***:
Enter **Volume label**: **MED_DATA** and select **Perform a quick format**.

For System Type ***Option***:
Enter **Volume label**: **SCR_DATA** and select **Perform a quick format**.

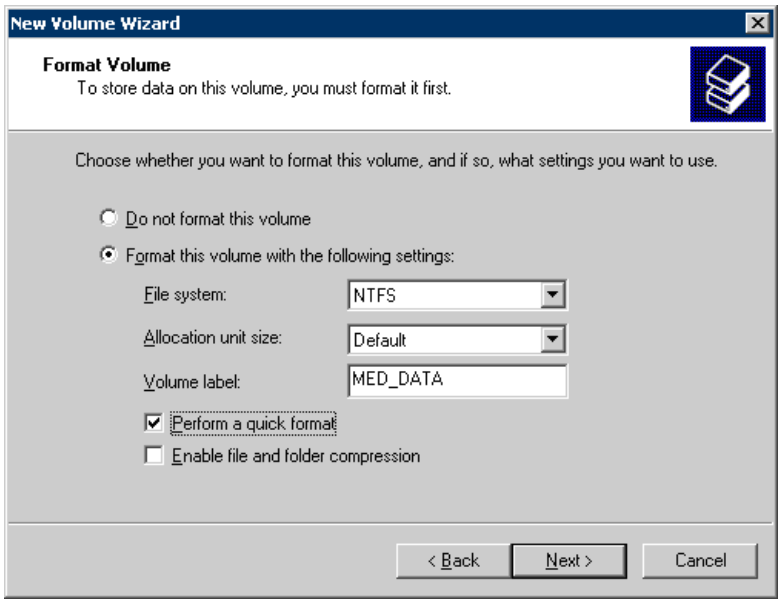

New Volume Wizard
Format Volume
To store data on this volume, you must format it first.
Choose whether you want to format this volume, and if so, what settings you want to use.
Do not format this volume
Format this volume with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
MED_DATA
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

Fig. 6 Format Volume

15. Click on **Next** and **Completing the New Volume Wizard** opens.

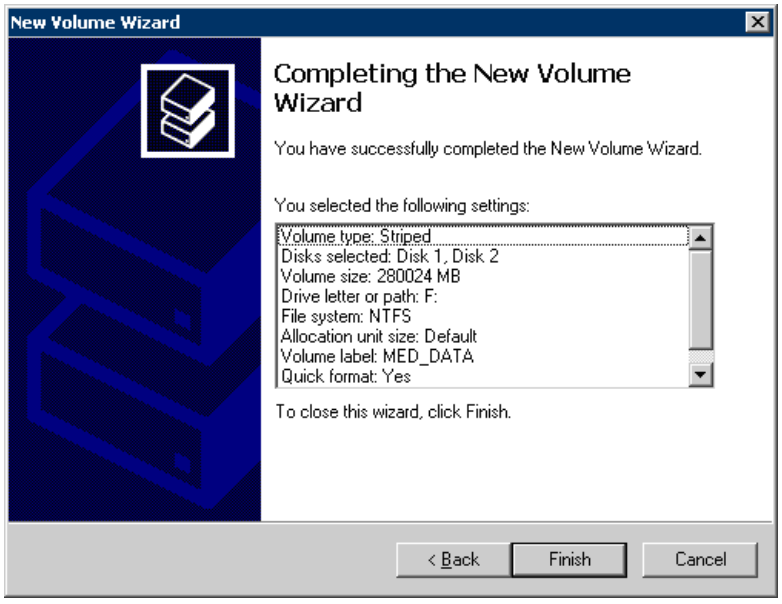


Fig. 7 Completing the New Volume Wizard

16. Click on **Finish** - quick formatting of new volume starts.

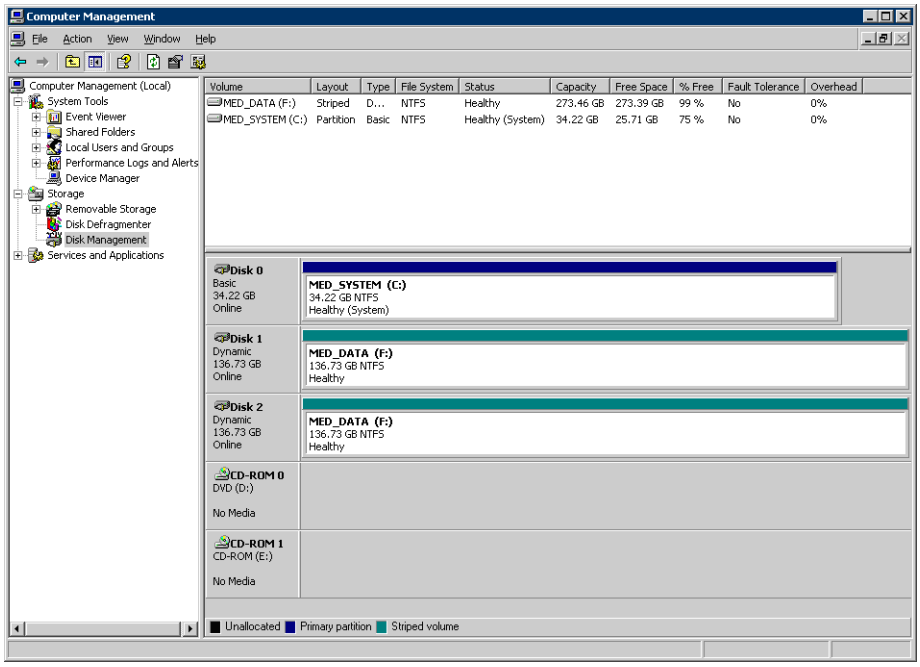


Fig. 8 Striped Volume MED_DATA (F: without optional hard disk)

17. Wait until quick formatting is finished. and **disks 1 and 2** are shown and marked as **healthy**.

For System Type ***Basic***:
MED_DATA is shown as partition **F**.

For System Type ***Option***:
SCR_DATA is shown as partition **G**.

Formatting and Assigning Extra Hard Disk (optional)

For System Type ***Basic***:
Skip this chapter in case of standard installation.

For System Type ***Option***:
The 3rd data hard disk will be a separate partition F:\

NOTE	**Do not stripe this partition with the two existing data disks.**

Format New Disk

1. **Format new disk** as **basic / simple / primary partition** (NOT STRIPED or SPANNED).
2. **Assign** drive letter **F:\,** name **MED_DATA**.
3. Exit computer management and open Windows explorer.

Installation of Matrox Driver

If the system shall be delivered with Siemens TFT the hardware includes one Matrox graphic board. Therefore it is necessary to install the Matrox driver as shown in the following steps.

Installation of Microsoft .NET Framework

1. Start **DOTNETFX.exe** from D:\TFT\DotNetRedist\Eng with double click.

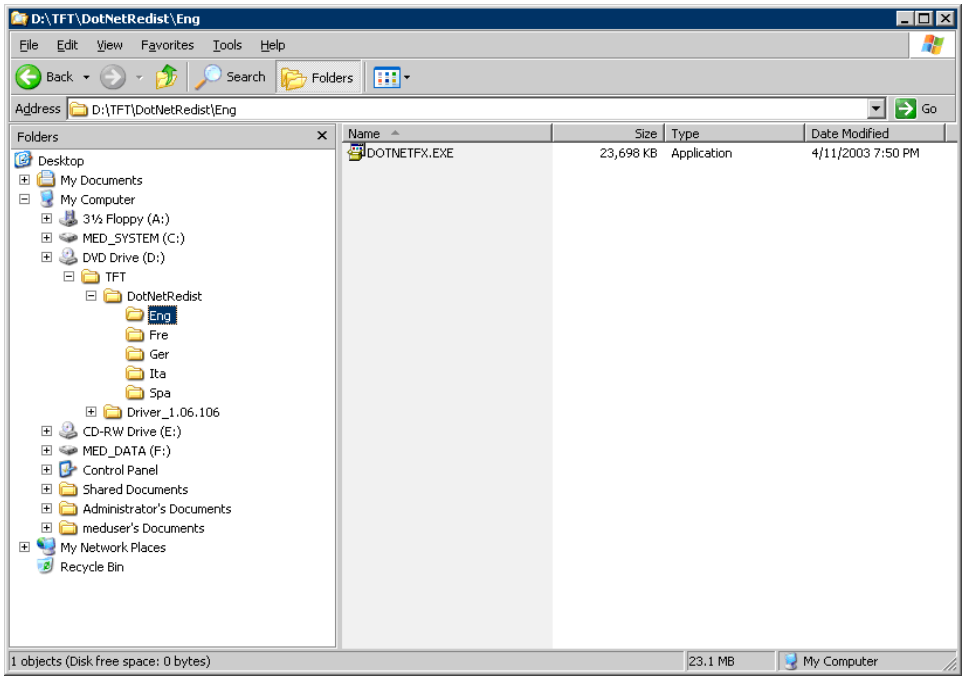


Fig. 9 Start DOTNETFX.exe

2. Click **Yes** on the following question:

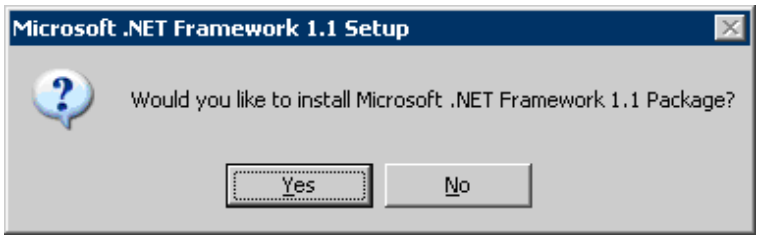


Fig. 10 Question: Install Microsoft .NET Framework

3. Accept Licensing - click on **Install.**

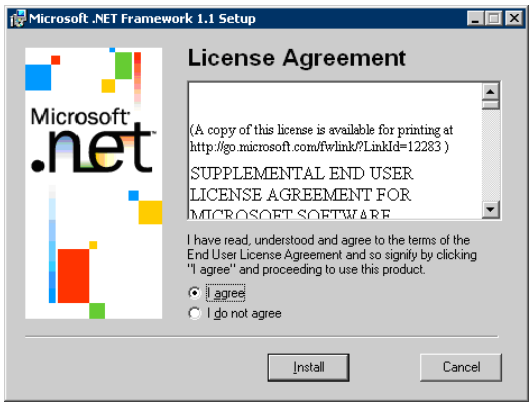

Microsoft .NET Framework 1.1 Setup
License Agreement
Microsoft
.net
(A copy of this license is available for printing at http://go.microsoft.com/fwlink/?LinkId=12283)
SUPPLEMENTAL END USER LICENSE AGREEMENT FOR MICROSOFT SOFTWARE
I have read, understood and agree to the terms of the End User License Agreement and so signify by clicking "I agree" and proceeding to use this product.
I agree
I do not agree
Install
Cancel

Fig. 11 Accept Licensing

4. Installation procedure is running automatically.

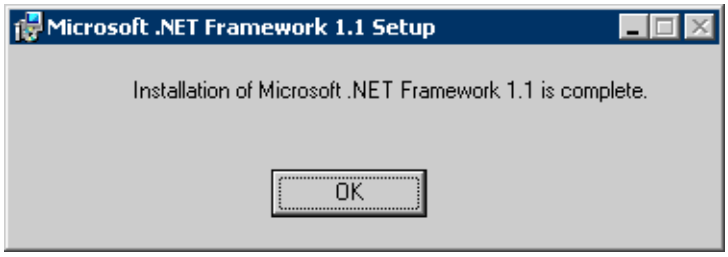


Fig. 12 Message: Installation complete

5. Click on **OK**.

Install Matrox Driver

1. Go to folder D:\TFT**MatroxDriver_1080134**.

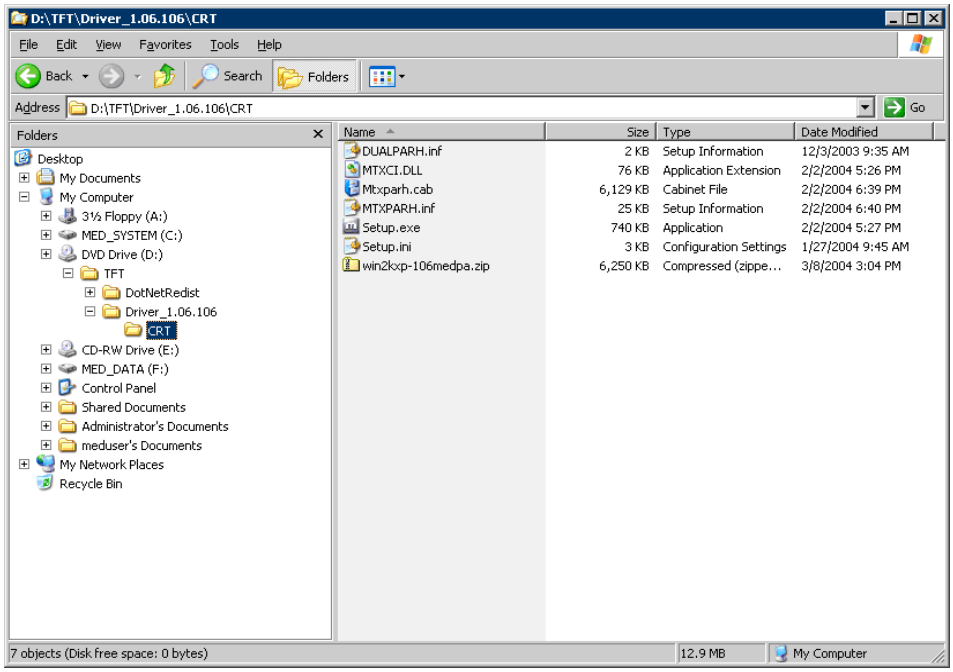


Fig. 13 Start **Setup.exe** from Matrox Driver Installation

2. Double click on **Setup.exe** to start Matrox driver installation.

NOTE	**Use Matrox *CRT driver* for TFT driver installation. There is no special edition for TFT available.**

3. On the first dialog window just click on **Next.**
4. In **Matrox Display Driver Selection** select **MED Series** and click on **Next**.

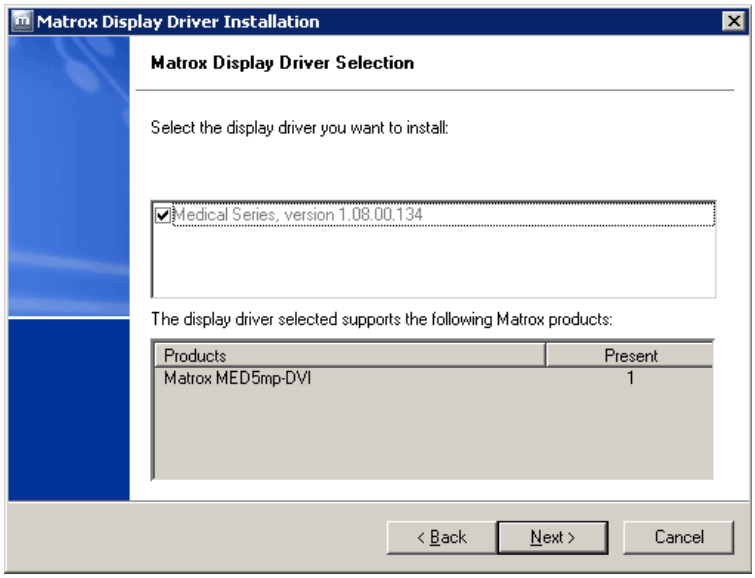


Fig. 14 Matrox Display Driver Selection

5. In **Matrox PowerDesk Settings** select **Matrox MED 5mp-DVI** and click on **Next**.

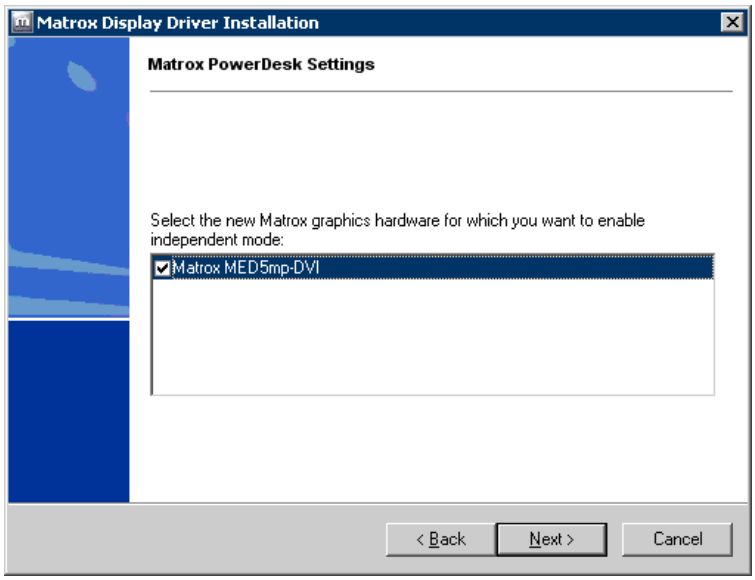

Matrox Display Driver Installation
Matrox PowerDesk Settings
Select the new Matrox graphics hardware for which you want to enable independent mode:
Matrox MED5mp-DVI
< Back
Next >
Cancel

Fig. 15 Matrox PowerDesk Setting

6. In **Ready to Install** click on **Next**.

7. Installation starts and is finished with a message.

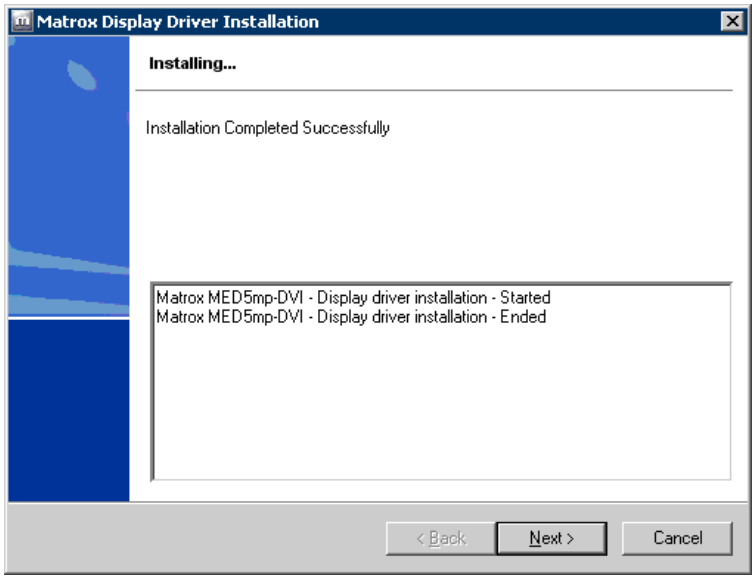

Matrox Display Driver Installation
Installing...
Installation Completed Successfully
Matrox MED5mp-DVI - Display driver installation - Started
Matrox MED5mp-DVI - Display driver installation - Ended
< Back
Next >
Cancel

Fig. 16 Installation completed successfully

8. Click on **Next**.
9. Click Finish button to restart the computer. Login as OS Administrator.

TFT Display Settings

Siemens TFT with Matrox driver uses the **2 displays, stretched mode**. Therefore the following steps are necessary.

1. Open dialog **Display Properties** with right mouse click on desktop.
2. Go to tab **Settings** and click on Monitor 2.

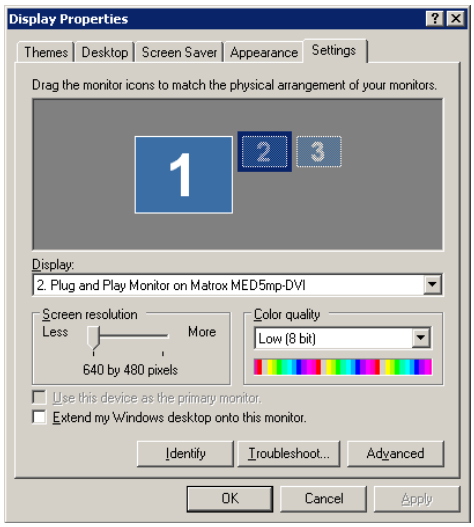


Fig. 17 Monitor Settings: Extend my Windows onto this monitor.

3. Select **Extend my Window onto this monitor** and press button **Apply**.
4. Click **Apply** to save the changes.

5. A message box appears - click on **Yes** before the reverting will be activated.

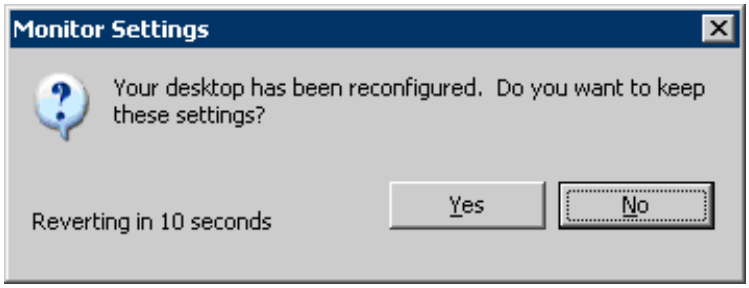


Fig. 18 Question: Do you want to keep these settings? (2)

6. In Display Properties, tab Settings, select monitor 2 and click on button **Advanced** to change the screen resolution. Window **Plug and Play Monitor and Matrox MEDSmp-DVI Properties** opens.

7. Go to tab **Adapter** and press button **List All Modes...**

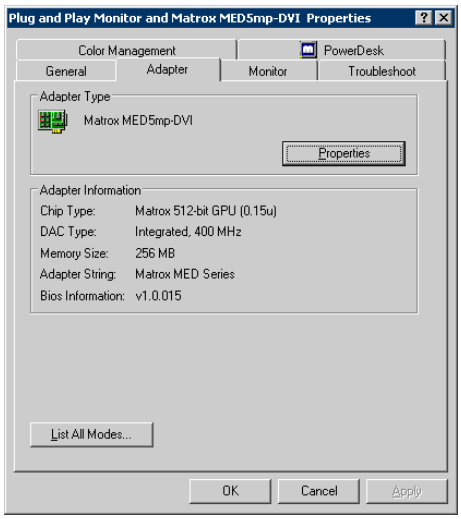


Fig. 19 List All Modes

8. In **List All Modes** select **2048 by 2560, 256 Colors, 25 Hertz (Interlaced)** and click on **OK**.

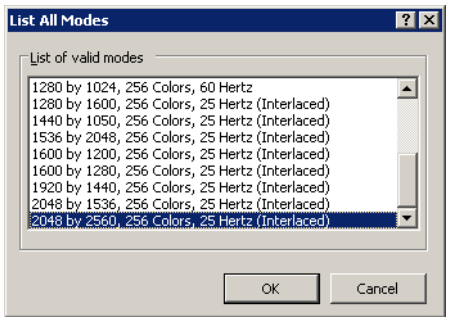

List All Modes
List of valid modes
1280 by 1024, 256 Colors, 60 Hertz
1280 by 1600, 256 Colors, 25 Hertz (Interlaced)
1440 by 1050, 256 Colors, 25 Hertz (Interlaced)
1536 by 2048, 256 Colors, 25 Hertz (Interlaced)
1600 by 1200, 256 Colors, 25 Hertz (Interlaced)
1600 by 1280, 256 Colors, 25 Hertz (Interlaced)
1920 by 1440, 256 Colors, 25 Hertz (Interlaced)
2048 by 1536, 256 Colors, 25 Hertz (Interlaced)
2048 by 2560, 256 Colors, 25 Hertz (Interlaced)
OK
Cancel

Fig. 20 Change screen resolution

9. Click **Apply** to save the changes.

10. A message box appears - click on **Yes** before the reverting will be activated.

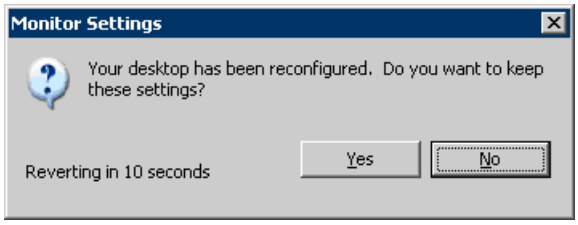


Fig. 21 Question: Do you want to keep these settings? (2)

11. Go to tab **Settings** and click on Monitor 3 .

12. Repeat steps 3-9 for monitor 3.

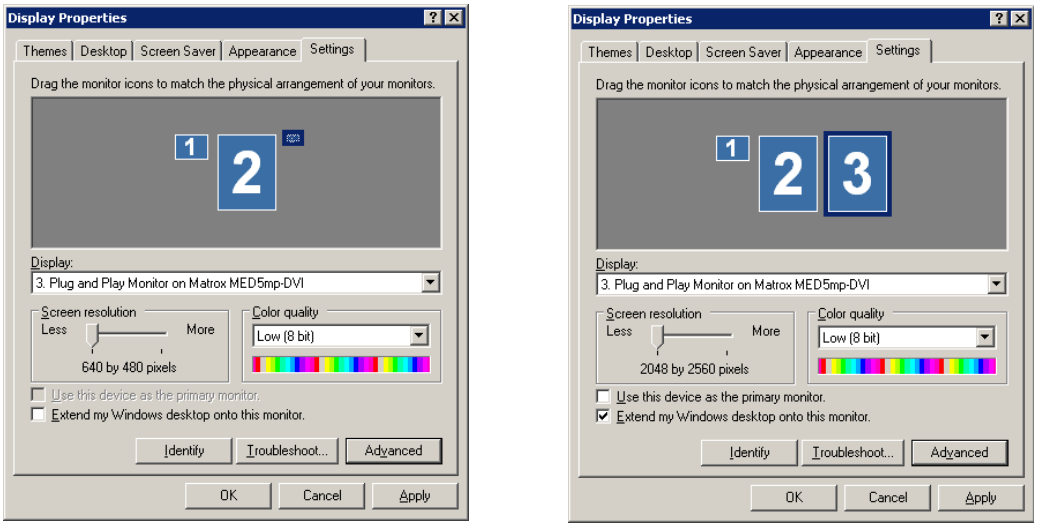


Fig. 22 Dispplay Properties: Before (left) and afterwards right)

NOTE	**The Message “Monitor Settings” may not appear.**

13. In Display settings select in Window **Plug and Play Monitor and Matrox MEDSmp-DVI Properties** go to tab **Power Desk**.

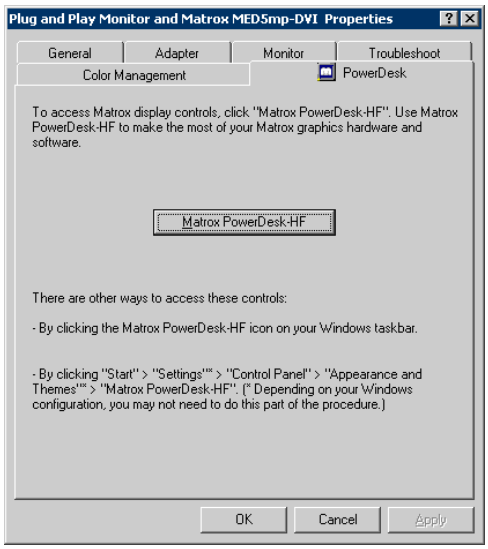

Plug and Play Monitor and Matrox MED5mp-DVI Properties
General
Adapter
Monitor
Troubleshoot
Color Management
PowerDesk
To access Matrox display controls, click "Matrox PowerDesk-HF". Use Matrox PowerDesk-HF to make the most of your Matrox graphics hardware and software.
Matrox PowerDesk-HF
There are other ways to access these controls:
- By clicking the Matrox PowerDesk-HF icon on your Windows taskbar.
- By clicking "Start" > "Settings"* > "Control Panel" > "Appearance and Themes"* > "Matrox PowerDesk-HF". (* Depending on your Windows configuration, you may not need to do this part of the procedure.)
OK
Cancel
Apply

Fig. 23 Matrox PowerDesk-HF

14. Press the central button **Matrox PowerDesk-HF**.
15. The window **Select a category** opens.

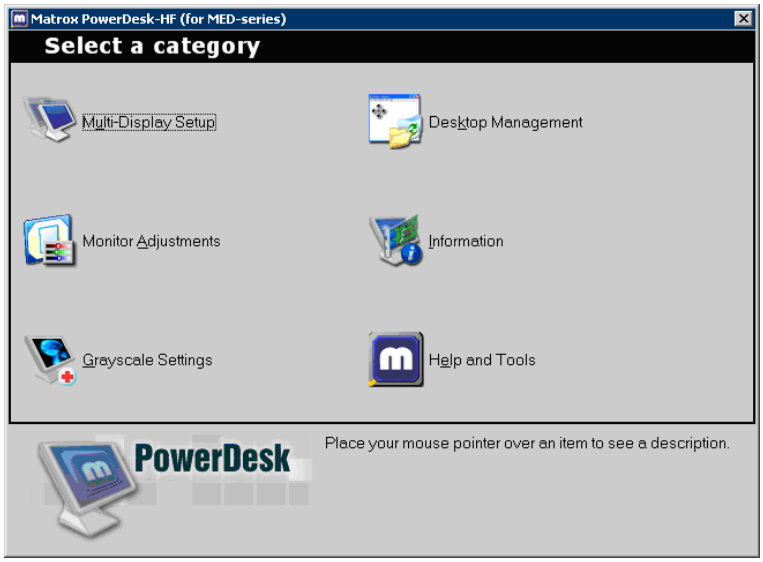


Fig. 24 Select a category

16. Select **Grayscale Setup**.
17. Therein select **Use 1024 shades of gray** (if not already selected) and click on button **OK**.

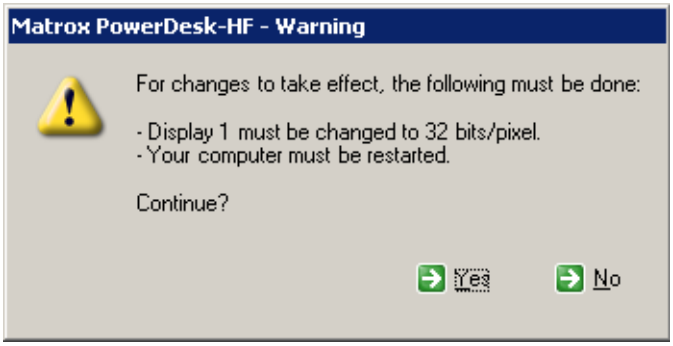

Matrox PowerDesk-HF - Warning
For changes to take effect, the following must be done:
- Display 1 must be changed to 32 bits/pixel.
- Your computer must be restarted.
Continue?
Yes
No

Fig. 25 Warning Message

18. In case of setting is changed click on **Yes** in the appearing message to **restart** the computer and save the new display settings.
19. Log in as OS **administrator** again.
20. Open again Display Properties, select Settings, select 2nd monitor and select button **Advanced**. In window **Plug and Play Monitor and Matrox MEDSmp-DVI Properties**, go to **Tab Power Desk** and press button **Matrox PowerDesk-HF** to go to Power Desk (refer to Fig. 23).

21. Back on **Select a category** window select the **Multi-Display Setup.**

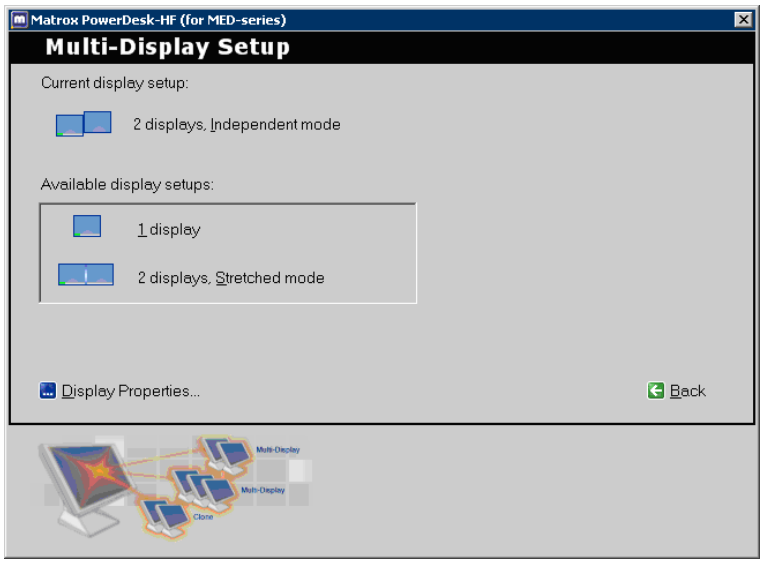


Fig. 26 Multi-Display Setup

22. Select the setup for **2 displays, Stretched mode** - a warning comes up:

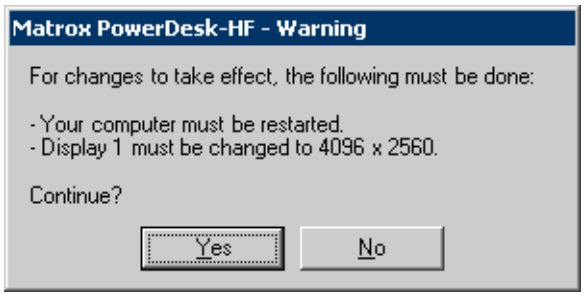

Matrox PowerDesk-HF - Warning
For changes to take effect, the following must be done:
- Your computer must be restarted.
- Display 1 must be changed to 4096 x 2560.
Continue?
Yes
No

Fig. 27 Warning: Your computer must be restarted

23. Click on **Yes** to **restart** the computer and save the new display settings.
24. Log in as OS **administrator** again.
25. On the two high resolution monitors a message is displayed. It should appear in the middle of both monitors.

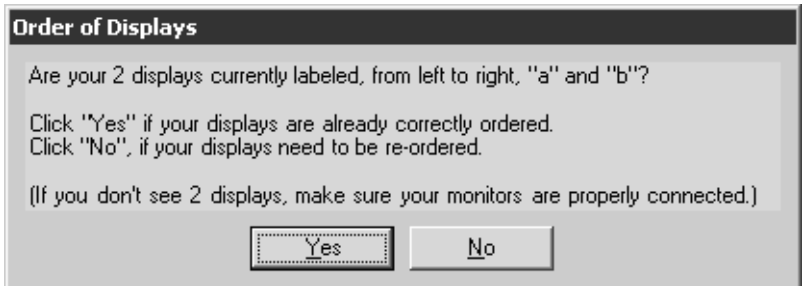

Order of Displays
Are your 2 displays currently labeled, from left to right, "a" and "b"?
Click "Yes" if your displays are already correctly ordered.
Click "No", if your displays need to be re-ordered.
(If you don't see 2 displays, make sure your monitors are properly connected.)
Yes
No

Fig. 28 Order of Displays

26. Click **Yes** if (a) is shown on left monitor and (b) on right monitor. Click **No** if (b) is shown on left monitor and (a) on right monitor.

27. Enter **Display Properties** again with right mouse click on desktop and check in tab Settings monitor order and values.

28. Click on Monitor 1 and move down to bottom line - the display order should be like shown in next figure.

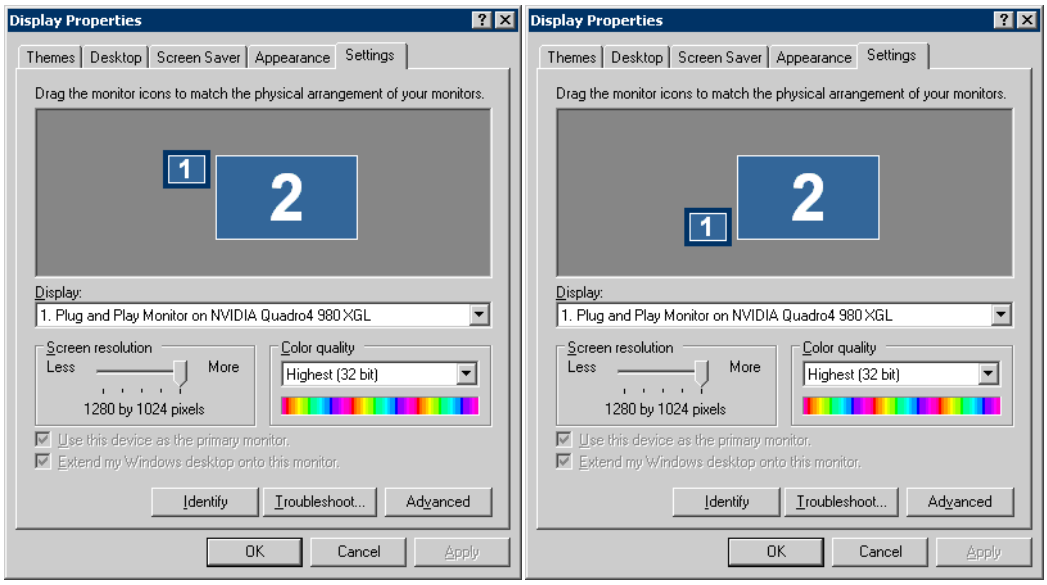


Fig. 29 Monitor display settings

29. Click on Monitor 1 with the right mouse button and select **Properties**.

30. Leave **Display Properties** with **OK**.

31. **Restart** system again and log in as **OS administrator** to make more initial settings.

Run Batch for Finalizing the Installation

There are 4 different batches available to finish the installation of the system.

Select the right batch following these criteria:

- Type of Material Number: ***New*** (8646460) or ***Update*** (8620192) system
- System type: ***Basic*** (2 striped data hard disks) or ***Option*** (2 striped data hard disks + additional hard disk)

General Procedure

The correct batch name is composed of **install_MATROX_<material number>_<system type>.bat**.

1. Run the batch D:\batch\install_MATROX>_<material number>_<system type>.bat
2. A DOS box is opened.

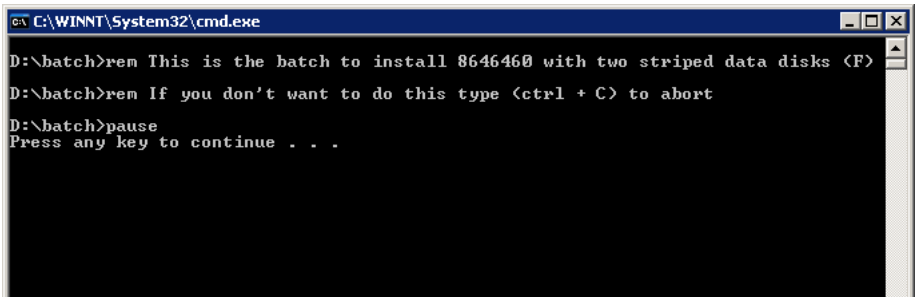

C:\WINNT\System32\cmd.exe
D:\batch>rem This is the batch to install 8646460 with two striped data disks (F)
D:\batch>rem If you don't want to do this type (ctrl + C) to abort
D:\batch>pause
Press any key to continue . . .

Fig. 1 Example: Running batch

3. Check that you have selected the correct batch, then press any key.

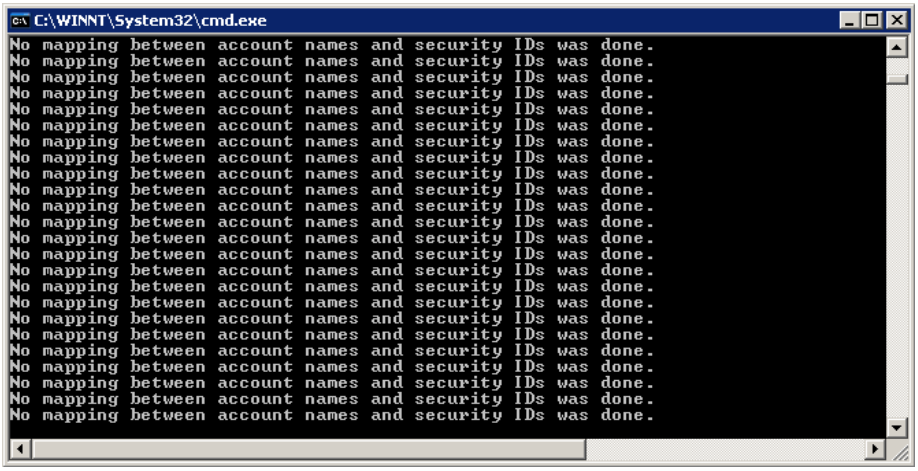


Fig. 2 Info messages

4. The message “No mapping..” appears many times.

5. If a message “Could Not Find C:\temp*.txt” appears, that is NOT an error, ignore it.

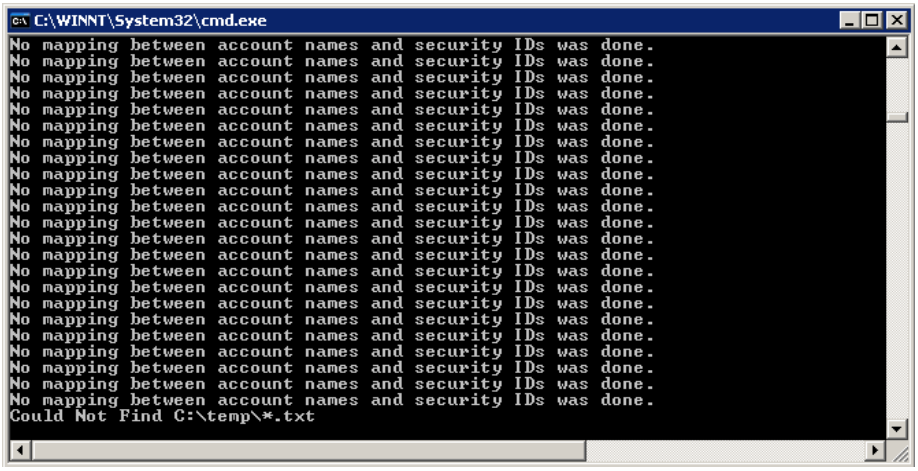


Fig. 3 Info messages

6. If a message “The process cannot access the file because it is being used by another process” you have to check the User management later in this chapter and after syngo configuration.
7. Accept appearing four dialog boxes:
   - for Material Number ***New*** and System Type ***Basic***/***Option*** refer to Fig. 4
   - for Material Number ***Update*** and System Type ***Basic***/***Option*** refer to Fig. 5.
8. The system is rebooted automatically.
9. After reboot, login as OS administrator and **check** in Explorer the availability of the following log files in C:\temp. All listed files must be available.

Refer to one of the following sections:

- "Log file for Material Number New and System Type Basic" on page 8 - 3
- "Log file for Material Number New and System Type Option" on page 8 - 4
- "Log file for Material Number Update and System Type Basic" on page 8 - 5
- "Log file for Material Number Update and System Type Option" on page 8 - 6

Log file for Material Number New and System Type Basic

Run the following batch: install_MATROX_8646460_basic.bat

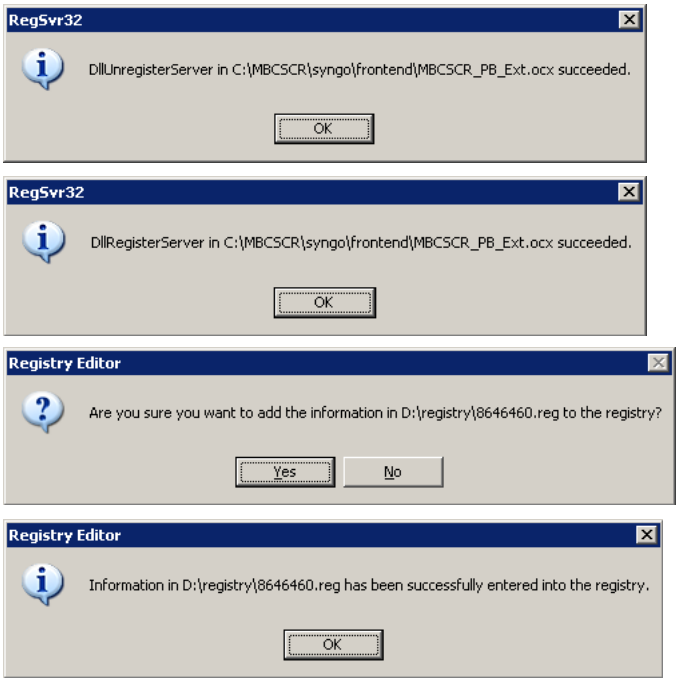


Fig. 4 Dialog boxes: DLLUnregister, DLLRegister, Import to Registry, import successfully (from top to bottom)

CheckSecuritySettings.log

configureSCRbr.log

csasecsetinstallprot_install.log

NOTE

Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:
... ->ERROR: ...<-
The log file shall contain in the first block entries like:
...seci: setPermissions(...\...), done

If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.

Check the new log file “C:\temp\csasecsetinstallprot_install.log” again, that no error message appears, but “done” is displayed

EnvironmentVariablesAfterBatches.log

produce0.log

produce2.log

produce3.log

produce4.log

produce5f.log

produce6.log
scr.dat
SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log
SetSecPermFilesRevers.log
shutdown.log

Log file for Material Number New and System Type Option

Run the following batch: install_MATROX_8646460_option.bat

CheckSecuritySettings.log
configureSCRbr.log
csasecsetinstallprot_install.log

NOTE	**Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:** **... ->ERROR: ...<-** **The log file shall contain in the first block entries like:** **...seci: setPermissions(...\...), done** **If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.** **Check the new log file "C:\temp\csasecsetinstallprot_install.log" again, that no error message appears, but "done" is displayed**

EnvironmentVariablesAfterBatches.log
produce0.log
produce2.log
produce3.log
produce4.log
produce5g.log
produce6.log
scr.dat
SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log
SetSecPermFilesRevers.log
shutdown.log

Log file for Material Number Update and System Type Basic

Run the following batch: install_MATROX_8620192_basic.bat

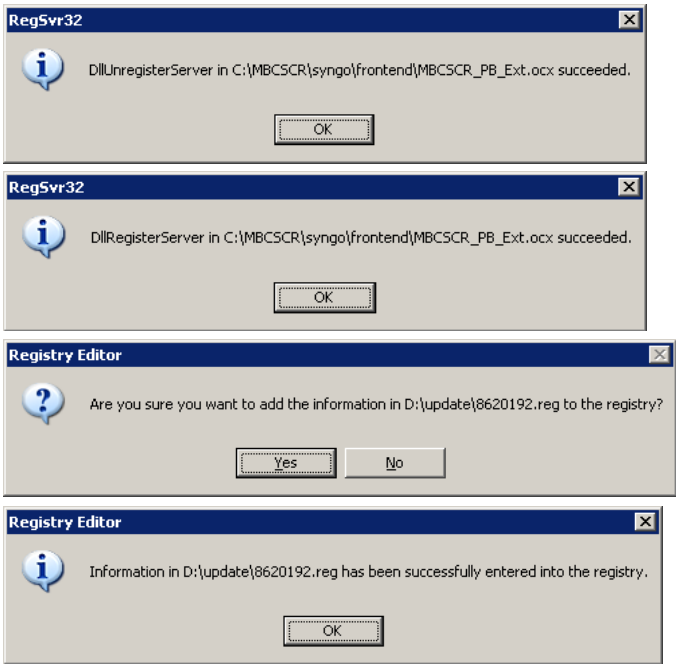


Fig. 5 Dialog boxes: DLLUnregister, DLLRegister, Import to Registry, import successfully (from top to bottom)

CheckSecuritySettings.log

configureSCRbr.log

csasecsetinstallprot_install.log

NOTE

Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:
... ->ERROR: ...<-
The log file shall contain in the first block entries like:
...seci: setPermissions(...\...), done

If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.

Check the new log file “C:\temp\csasecsetinstallprot_install.log” again, that no error message appears, but “done” is displayed

EnvironmentVariablesAfterBatches.log

produce0.log

produce1.log

produce2.log

produce3.log

produce4.log

produce5f.log

produce6.log
scr.dat
SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log
SetSecPermFilesRevers.log
shutdown.log

Log file for Material Number Update and System Type Option

Run the following batch: install_MATROX_8620192_option.bat

CheckSecuritySettings.log
configureSCRbr.log
csasecsetinstallprot_install.log

NOTE	**Open the file csasecsetinstallprot_install.log and check, that no error messages appear in the first block:** **... ->ERROR: ...<-** **The log file shall contain in the first block entries like:** **...seci: setPermissions(...\...), done** **If any error message is present, run the batch D:\batch\all\csasecsetinstallprot_install.bat. A DOS box opens and closes automatically.** **Check the new log file "C:\temp\csasecsetinstallprot_install.log" again, that no error message appears, but "done" is displayed**

EnvironmentVariablesAfterBatches.log
produce0.log
produce1.log
produce2.log
produce3.log
produce4.log
produce5g.log
produce6.log
scr.dat
SCRPackage_out.log

NOTE	**The file must be 1 KB large, not 0 KB (empty)!**

SetSecPermFiles.log
SetSecPermFilesRevers.log
shutdown.log

Check User Management for existing Background User

1. Call “Start - syngo - security - Configuration”.
2. In the appearing DOS box, enter the administrator password and press **Enter**.

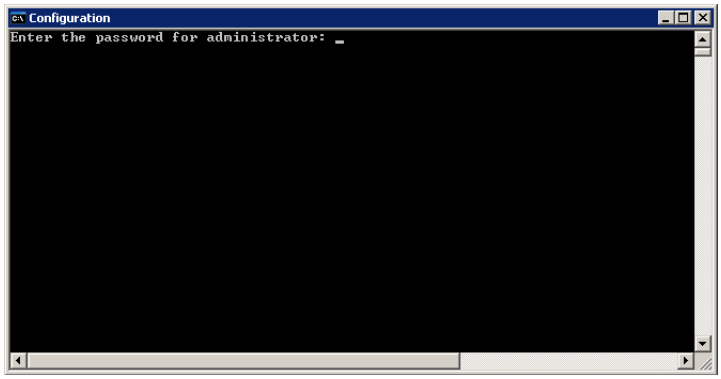


Fig. 6 Configuration window

3. If an error message appears, accept it - and skip the following instructions. This will be checked again during Syngo configuration in chapter “Settings in syngo User Management”.

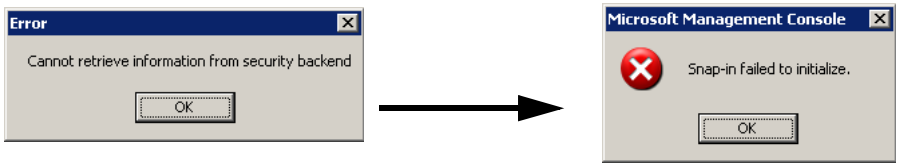


Fig. 7 Error Messages

4. If the “Syngo Security Configuration” window opens, double click **User Management** and in the right window **Users**.

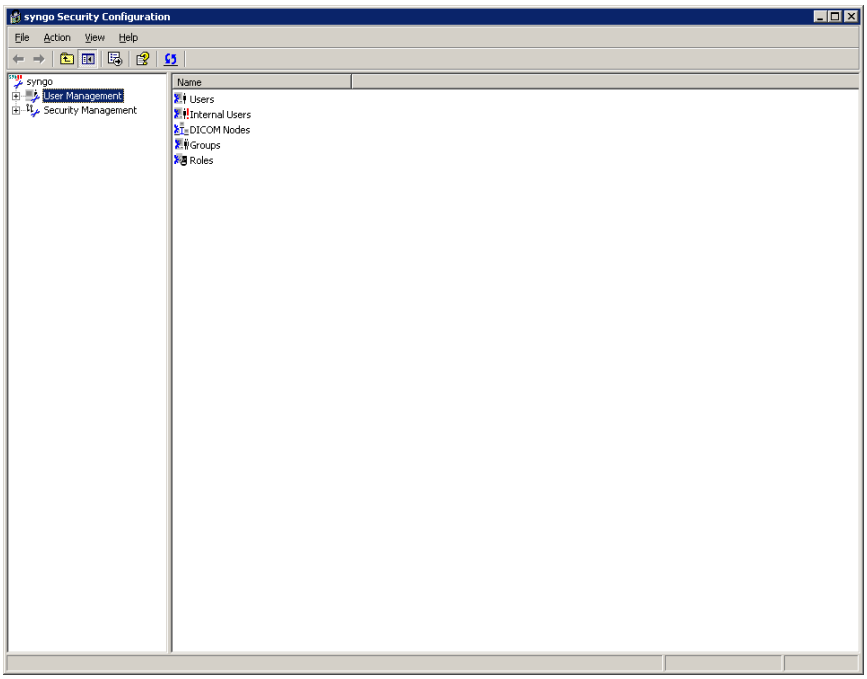


Fig. 8 Syngo Security Configuration window

5. The user “MBC_BACKGROUNDUSER” shall be available in the right window.

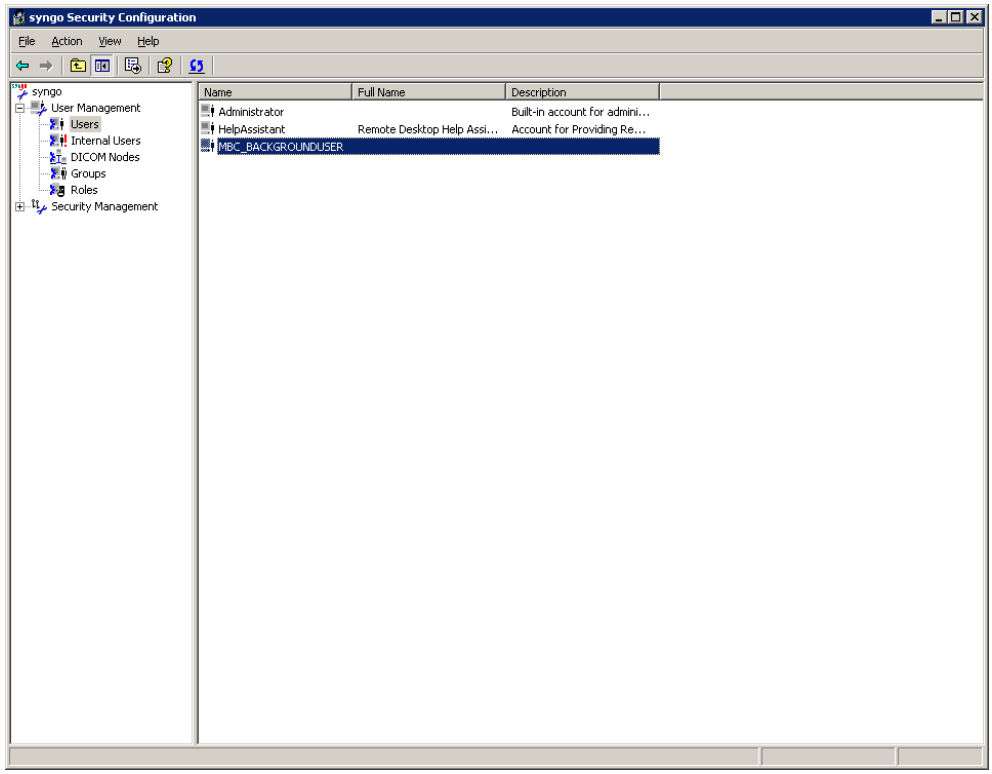


Fig. 9 Syngo Security Configuration window

6. Double click MBC_BACKGROUNDUSER” and click on the tab “Member Of”. Under “Assigned” DICOM_GROUP shall be mentioned.

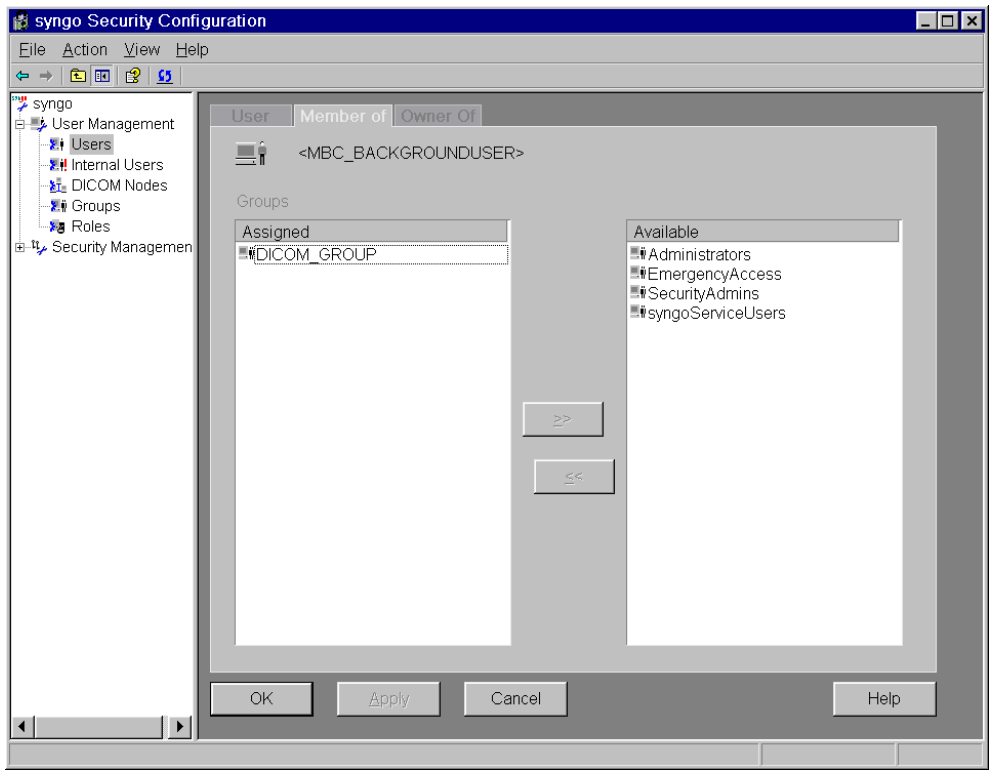


Fig. 10 Syngo Security Configuration window

7. Click on tab “Owner Of”. Under “Assigned” DICOM_GROUP shall be mentioned as well.

NOTE	**If in step 5 the user is not available, close the window and run from Windows explorer the batch “D:\batch\all\CreateBackground-User.bat”.** **A DOS box opens and disappears. Then run the batch “D:\batch\all\SetBackgroundUserGroup.bat".** **Repeat steps 1-7; everything shall be ok. If not, this will be checked again during Syngo configuration in chapter "Settings in syngo User Management".**

NOTE	**If only in steps 6 and 7 DICOM_GROUP is not mentioned, close the window and run "D:\batch\all\SetBackgroundUserGroup.bat".** **Repeat steps 1-7; everything shall be ok. If not, this will be checked again during Syngo configuration in chapter "Settings in syngo User Management".**

Configure Auto Login for meduser

1. Run batch **D:\batch\SetDefaultMeduser.bat**
2. A DOS window opens (and closes some seconds later).
3. The Windows control panel for **Users and Accounts** opens.
4. Select **meduser** from the list.
5. Uncheck checkbox **Users must enter a user name and password to enter this computer**.
6. Click **Apply**.
7. Enter the password twice.
8. Press **OK**.
9. Leave the dialog with **OK**.

10. Reboot the computer and wait until the Service UI appears. Do **not** enter the license now, but proceed with the next sections.

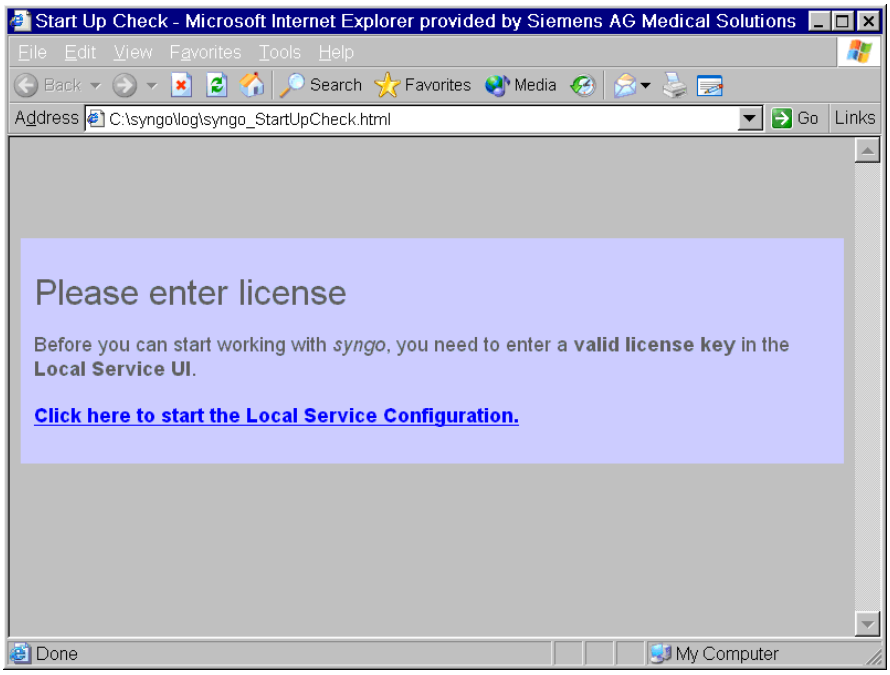

Start Up Check - Microsoft Internet Explorer provided by Siemens AG Medical Solutions
File Edit View Favorites Tools Help
Back Search Favorites Media
Address C:\syngo\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

Fig. 11 Start Up Check

NOTE	**It can take up to 15 minutes. Do NOT open the IE manually!**

NOTE	**If window "Please enter license" does not appear, double click on IE icon on desktop.**

Color Settings for syngo meduser

Skip this section if the black Windows desktop is shown.

For syngo meduser, the color setting shall be **Siemens_True_Color**.

1. On the desktop syngo monitor, open with right mouse click **Display Properties** ⇒ **Themes**. Select Theme **Siemens_True_Color**.

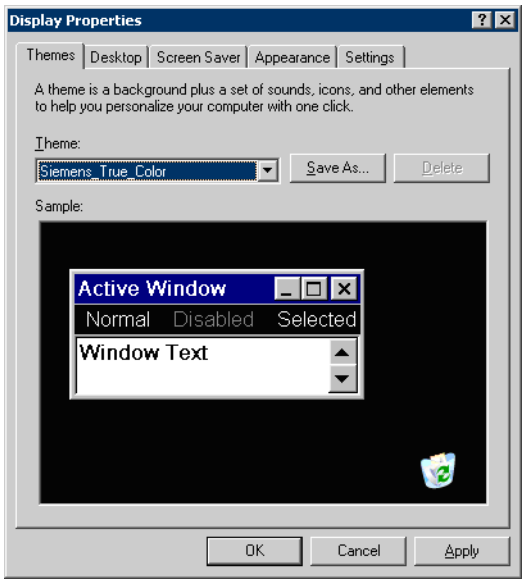


Fig. 12 Siemens True Color

2. Click on **OK** to save the setting and leave the dialog.

Select the Language for SCR

Perform in case of production with predefined language setting.

Currently four languages are available: English, French, German and Spanish.

NOTE	**For the Swedish version, select English language.**

Language	Setting in lightbox.ini
English	gb
French	fr
German	ger
Spanish	es

Tab. 1 Language Settings in lightbox.ini

1. Double click on **LanguageSelector.exe** in C:\MBCSCR**.**
   The following dialog appears:

Fig. 13 Language Selector

2. Select language and confirm with **OK**. The language settings in lightbox.ini will then automatically be switched to the selected language.

Changing the Keyboard Driver for syngo meduser

Perform in case of production with predefined language setting.

The MammoReport^{Plus} workstation is delivered with one of the following keyboards:

- US International keyboard:
  - Default input language: English (United States)
  - Installed service / Keyboard Layout: United States-International
- German keyboard:
  - Default input language: German (Germany)
  - Installed service / Keyboard Layout: German
- French keyboard:
  - Default input language: French (France)
  - Installed service / Keyboard Layout: French
- Spanish keyboard:
  - Default input language: Spanish (Spain)
  - Installed service / Keyboard Layout: Spanish
- Italian keyboard:
  - Default input language: Italian (Italy)
  - Installed service / Keyboard Layout: Italian
- Portuguese keyboard:
  - Default input language: Portuguese (Portugal)
  - Installed service / Keyboard Layout: Portuguese
- English keyboard:
  - Default input language: English (United Kingdom)
  - Installed service / Keyboard Layout: United Kingdom
- Swedish keyboard:
  - Default input language: Swedish (Sweden)
  - Installed service / Keyboard Layout: Swedish

To change the keyboard language follow the steps below:

1. Select Windows **Start Menu** ⇒ **Settings** ⇒ **Control Panel**.
2. In the list view, double click the icon **Regional and Language Options**.

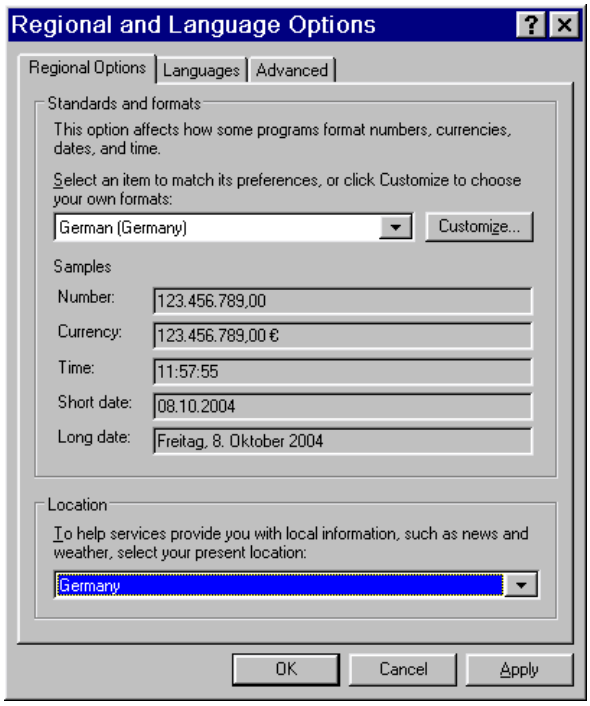


Fig. 14 Regional and Language Options

3. Choose **format** and **location** as required. Click **Apply**.
4. Click on tab **Languages**. Click button **Details**.

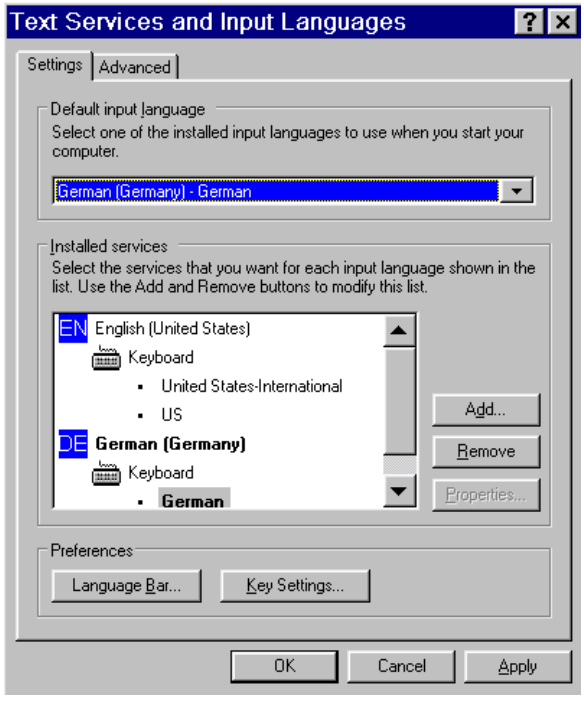


Fig. 15 Test Services and Input Languages

5. Select **Default input language** and **Installed service**s. Click **OK**.
6. Click **OK** again.
7. **Restart** the system to activate the settings.

Initial syngo Configuration

The initial syngo configuration must be performed manually step by step. Service key and licenses are required first. After that, the setup procedure continues with configuration selection frame on the left side of the window. Select the next button on the action bar.

Enter Service Key

1. Start syngo Local Service Configuration with click on the link.

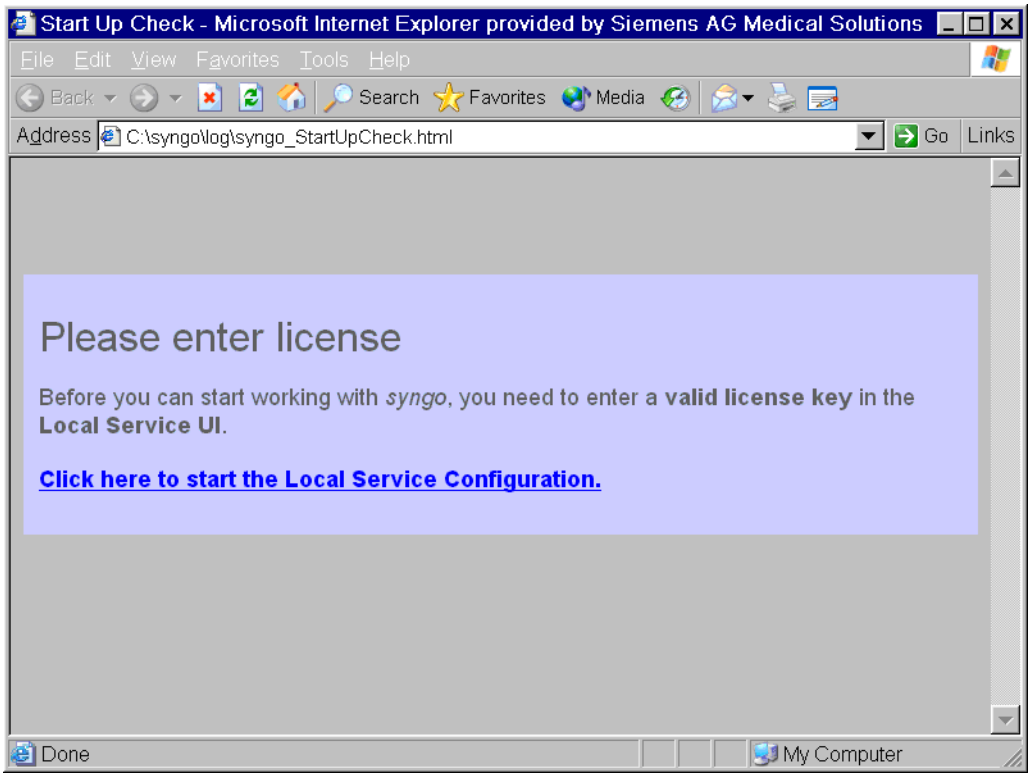

Start Up Check - Microsoft Internet Explorer provided by Siemens AG Medical Solutions
File Edit View Favorites Tools Help
Back Search Favorites Media
Address C:\syngo\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

Fig. 1 Start Local Service Configuration

NOTE	**If window "Please enter license" does not appear, double click on IE icon on desktop.**

For Type of Material Number: ***New*** (8646460)
Insert CD labelled **MammoReport License Keys** with the serial number into DVD drive D:\.

For Type of Material Number: ***Update*** (8620192)
Use the special Update CD.

2. Press **Windows key** and open **Explorer**.
3. **Open** the file containing the **service key** from DVD D:\.
4. Copy the **first 14 digits** to the clipboard (Ctrl + C) and paste them (Ctrl + V) into the **large text field** for the password.

5. Copy the **last 6 digits** to the clipboard and paste them into the **small password field**.

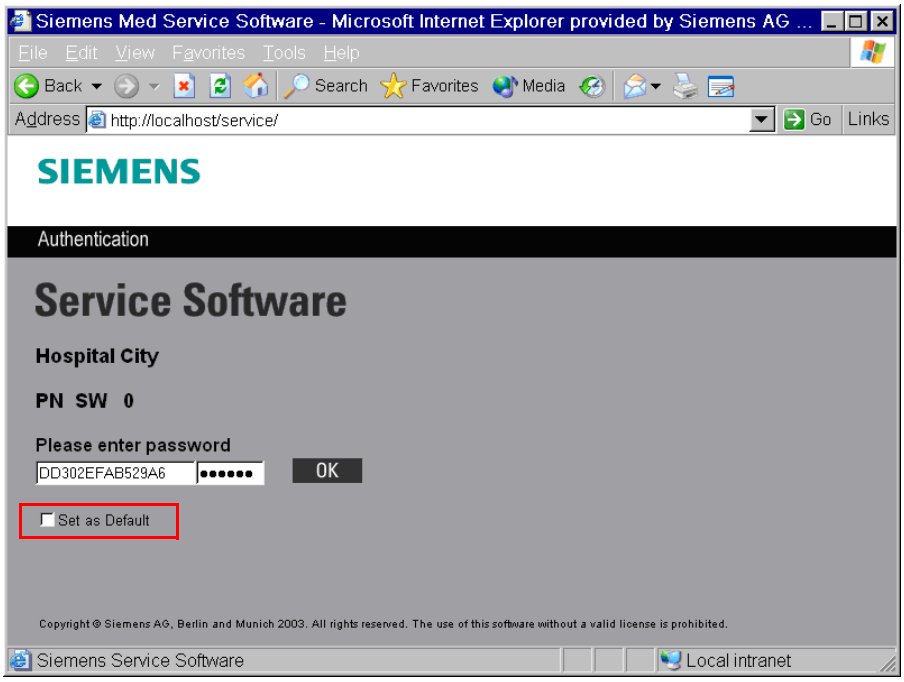

Siemens Med Service Software - Microsoft Internet Explorer provided by Siemens AG ...
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/service/
Go Links
SIEMENS
Authentication
Service Software
Hospital City
PN SW 0
Please enter password
DD302EFAB529A6
OK
Set as Default
Copyright © Siemens AG, Berlin and Munich 2003. All rights reserved. The use of this software without a valid license is prohibited.
Siemens Service Software
Local intranet

Fig. 2 Enter Service Key

6. Select “Set as Default” and click **OK**.
7. Set Internet Explorer to default browser - click **Yes** on message.

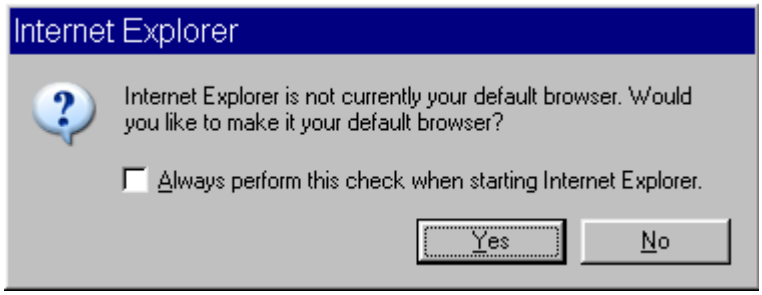

Internet Explorer
Internet Explorer is not currently your default browser. Would you like to make it your default browser?
Always perform this check when starting Internet Explorer.
Yes
No

Fig. 3 Internet Explorer dialog

8. The Home Menu appears - click on service function **Configuration**.

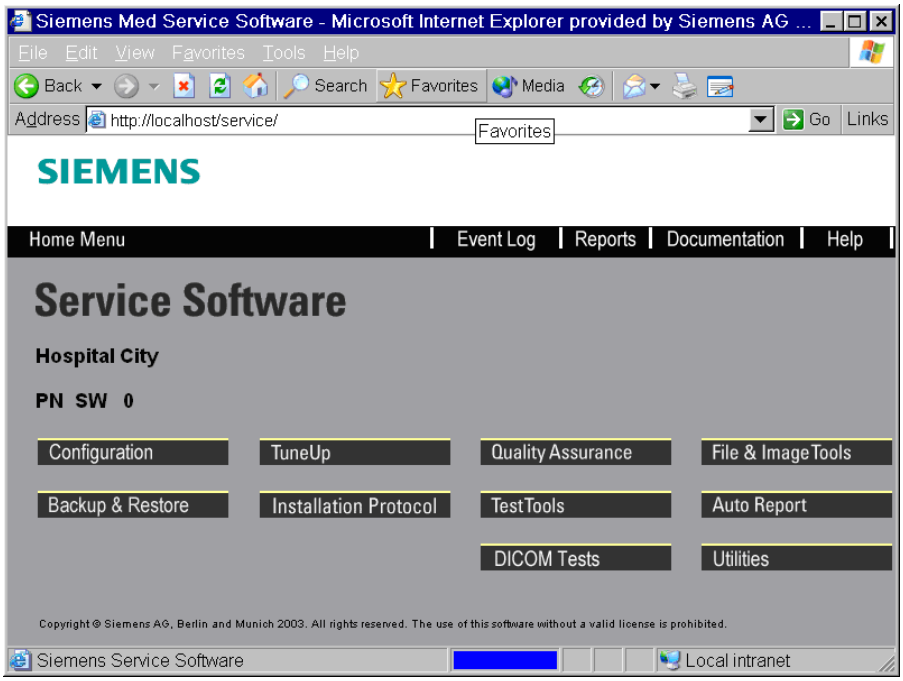


Fig. 4 Home Menu

9. **MammoReportPlus** is selected as System type and **Attached to Network** is already checked.

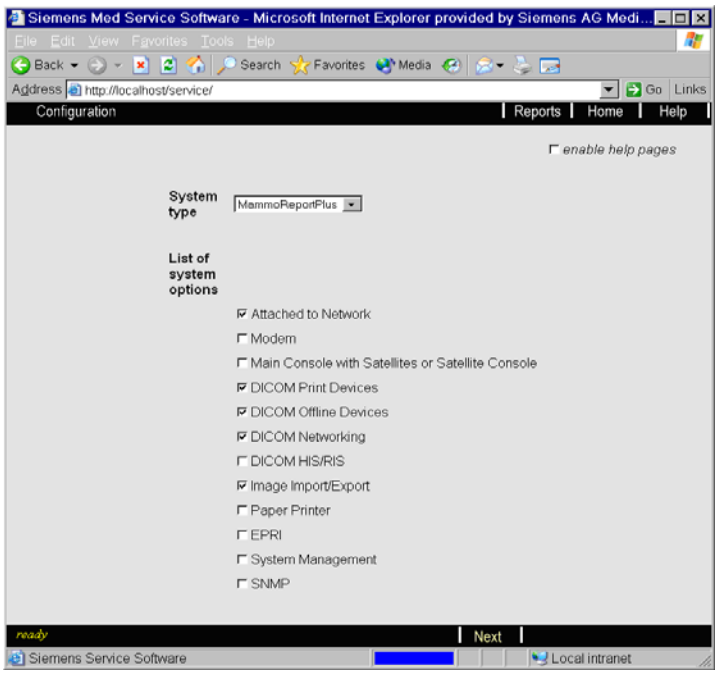


Fig. 5 List of System Options

10. Check the **three DICOM options** (do not check DICOM HIS/RIS) and **Image Import /Export** - click **Next**.

11. Initial Setup window appears.

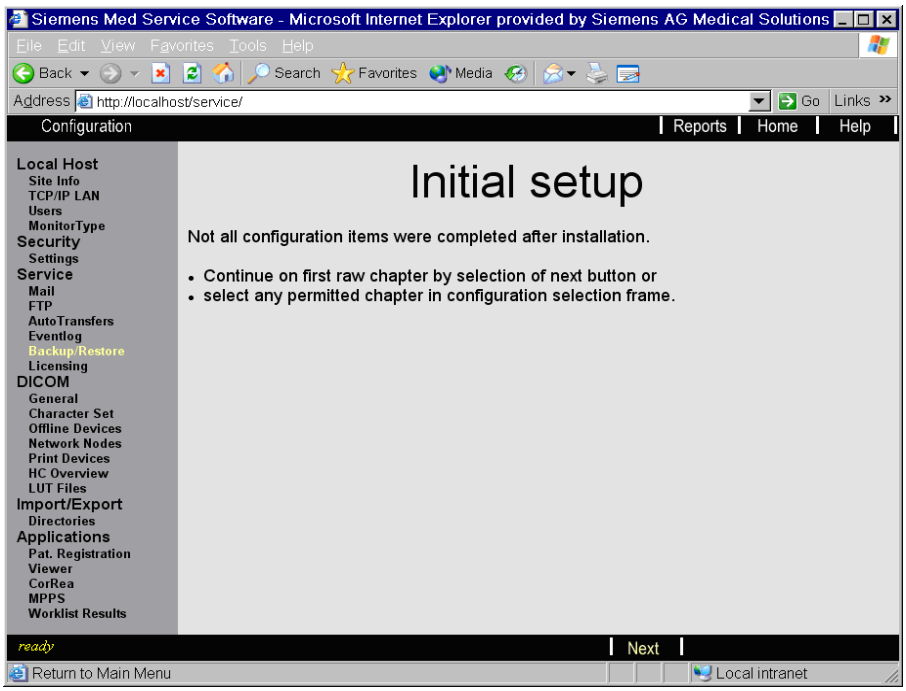


Fig. 6 Initial Setup Window

12. Click **Next** on the action bar.

Import License File

1. The next configuration window is Licensing. The query of the licence file will be activated automatically.
2. A message comes up: The License File does not contain any features. Click **OK**.

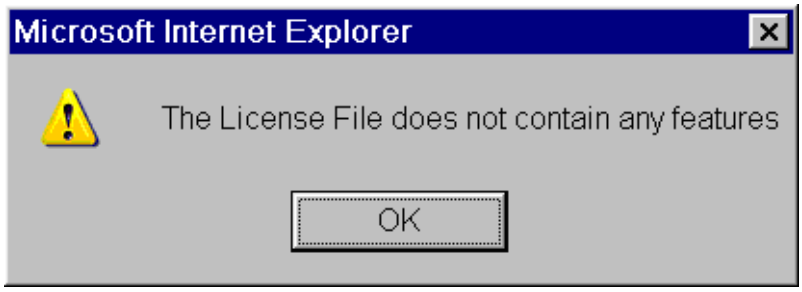


Fig. 7 Warning: License File does not contain any Features

3. **Browse** to license file on **Service CD** on D:\ and click on **Import License file**.

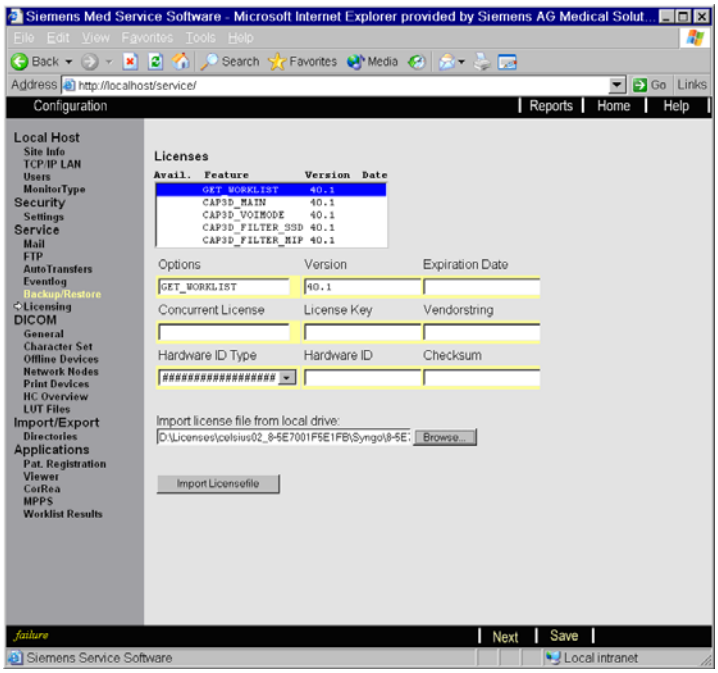


Fig. 8 Import License File

4. A message appears: Are you sure you want to overwrite the existing License File? Click **OK**.

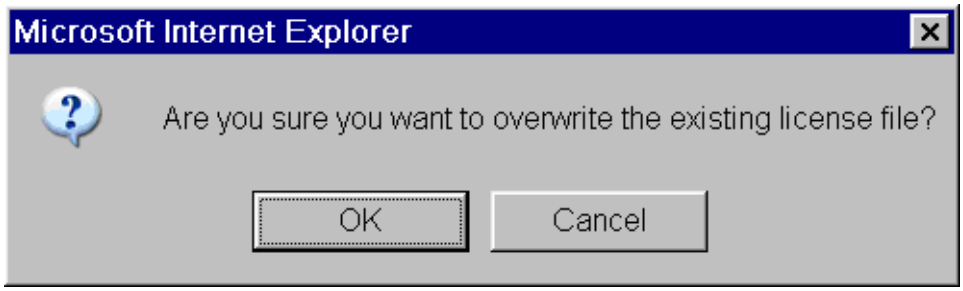


Fig. 9 Question: Overwrite License File

5. **Importing license file...** is shown on progress bar - **wait** for **ready to** appear.
6. Then click **Save** on the action bar and wait for **ready** on the progress bar.
7. Then click on **Next**.

Configuration of Local Host Settings

Site Info

1. In **Local Host / Site Info** enter the **Serial No.** of the MammoReport system and the **<computer/station name>**.

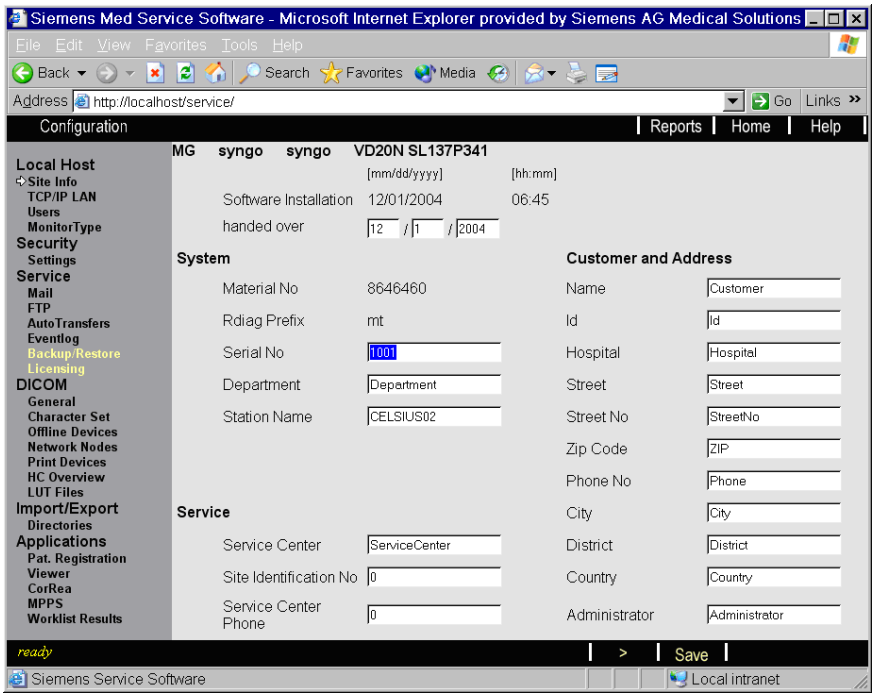


Fig. 10 Local Host / Site Info

2. Click on **Save**; **shutdown pending** appears on the info bar.
3. Click on the **arrow** for next page **>**: Time zone / Date.

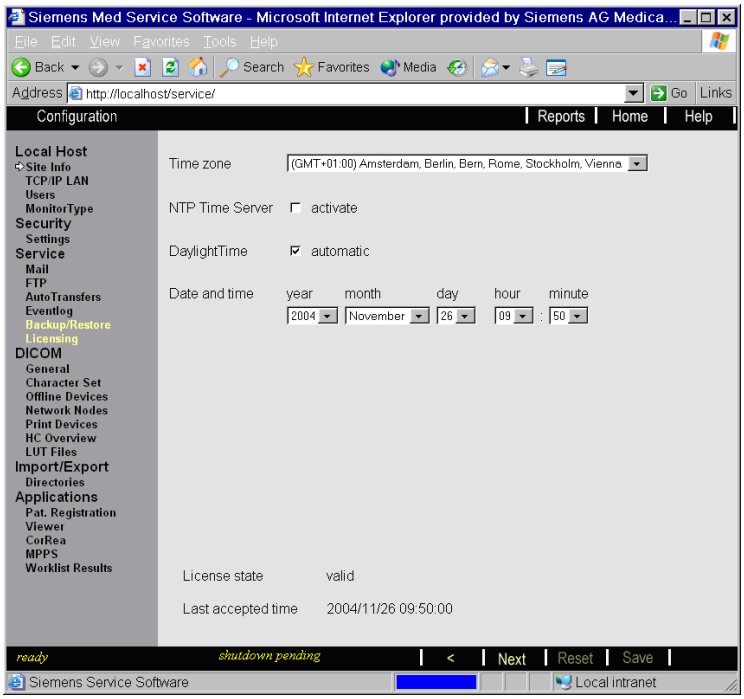


Fig. 11 Site Info: Time Zone and Date

4. Change the time zone (if necessary) as follows for the corresponding languages:

   - (GMT) Greenwich Mean Time for Portuguese (Portugal) and English (United Kingdom).

   - (GMT+01:00) Amsterdam... for German (Germany), Italian (Italy) and Swedish (Sweden)

   - (GMT+01:00) Brussels... for French (France), Spanish (Spain)

   - for English (United States) select an appropriate time zone

5. Click on **Save**.

6. Click on **Next** and a message comes up.

Microsoft Internet Explorer
Be aware that time stamps on any archived documents will derive from these time entries.
If you are sure the time settings are all right, press OK.
OK
Cancel

Fig. 12 Question: Time settings have changed

7. Click **OK**.

TCP / IP LAN

1. Change Computer name to **<computer/station name>**.

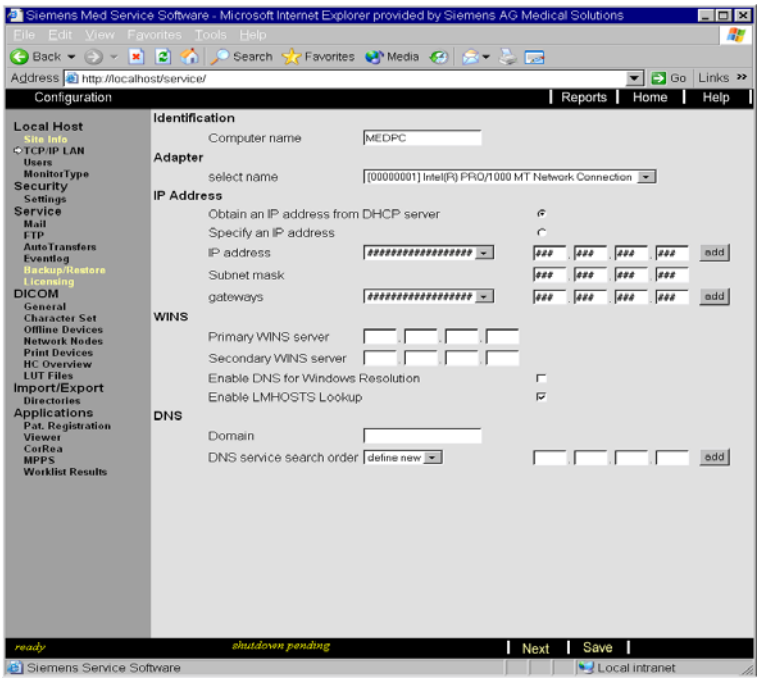


Fig. 13 Delete IP address

2. Select **Specify an IP address** with radio button (if not already selected).
3. If in **IP address** any IP address is defined, select it and click on the adjacent **del button**. Wait for the deletion to be completed.
4. Make sure in **IP address** “define new” is selected and and enter the IP address of the computer in the local network.
5. **Select** entered **IP address** and click on **Save**.

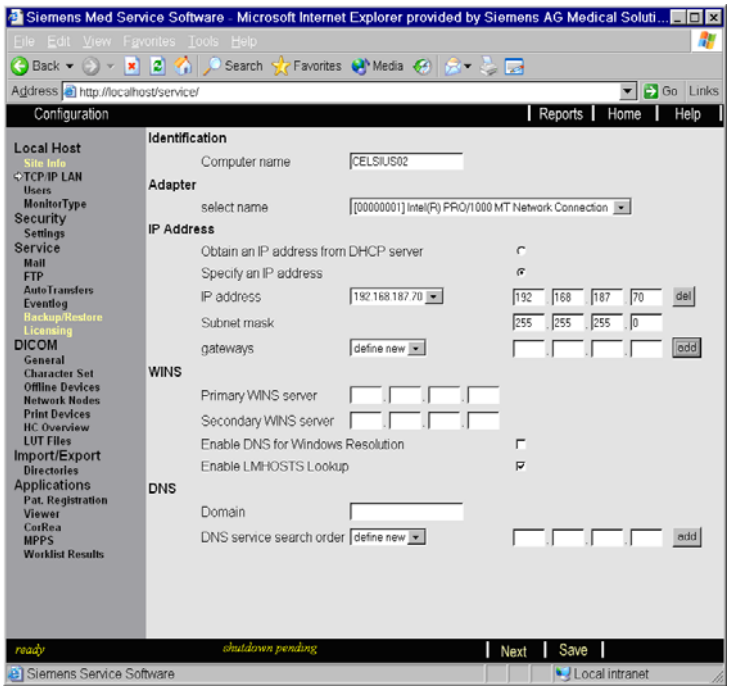


Fig. 14 Enter IP address and subnet mask

NOTE **If any IP address is defined that is not used for testing purposes it should be deleted.**

6. A message appears - click **OK**.

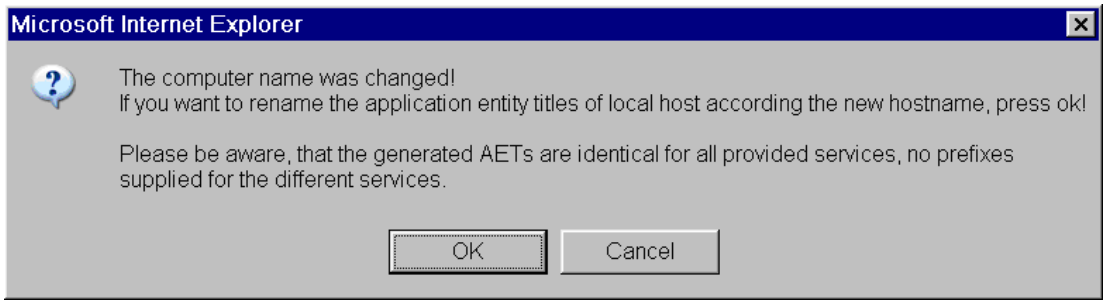

Microsoft Internet Explorer
The computer name was changed!
If you want to rename the application entity titles of local host according the new hostname, press ok!
Please be aware, that the generated AETs are identical for all provided services, no prefixes supplied for the different services.
OK
Cancel

Fig. 15 Question: Computer name has changed

7. The next dialog window appears - click **OK**.

Microsoft Internet Explorer
The change is only consistently saved after reboot!
Use only home button of service ui to start shutdown and make new hostname valid.
OK

Fig. 16 Warning: The change is only consistent after reboot

NOTE	**It is not necessary to reboot the system or restart the application immediately when it is recommended from syngo. You can make further changes and reboot later.**

8. The progress bar is activated and the message **please wait** is shown: wait until the changes are finished and the next message box appears.

Fig. 17 Message: Local host data successfully saved

9. Click **OK** - **ready** and **shutdown pending** appear on the info bar.
10. Click **Next** on the action bar.

Users

1. Check the checkbox **Enable Auto login**.
2. Enter the password for the administrator; enter this also in the confirm box.
3. Click on **Save** and after saving is completed click on **Next**.

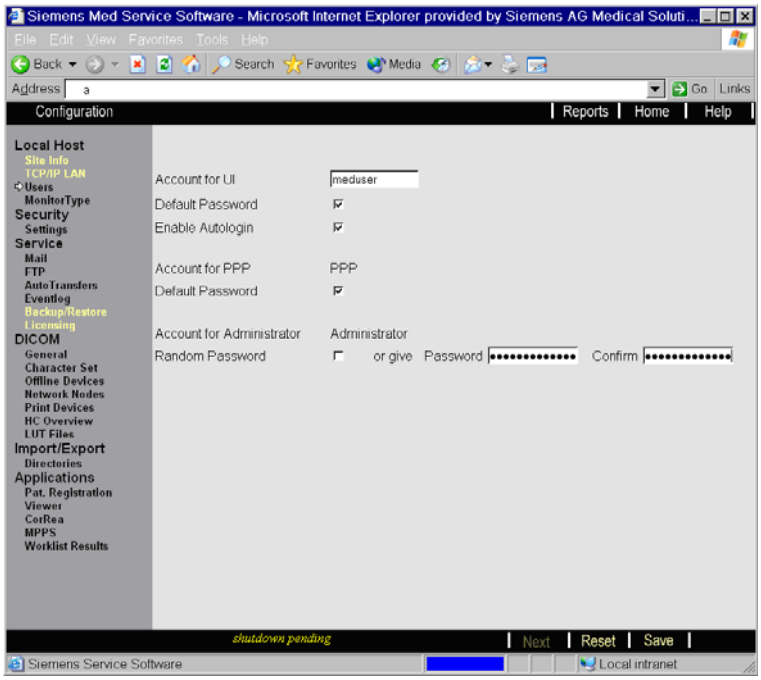


Fig. 18 Give Administrator Password

4. On page **Monitor Type settings** only click **Next**.
5. Configuration opens page **Security / Settings** and is trying to retrieve the security data from the system. This will fail because at this stage no security settings can be made.

Fig. 19 Warning: Retrieve of security data failed

6. Ignore the warning: Click **OK** and go on with **Next**.
7. No further configuration of service data is necessary at this point. (Backup/ Restore will be completed later.) Therefore click **>** or **Next** on the pages:
   - Mail
   - FTP
   - Auto Transfers
   - Event log

Configuration of DICOM Settings

General

1. The local application entities titles are shown.
2. Change **HIS / RIS** and **Study Transfer** to **<computer/station name>**.
3. Change **Printer** to **SCR_SYNGO**.
4. Click on **Save**.

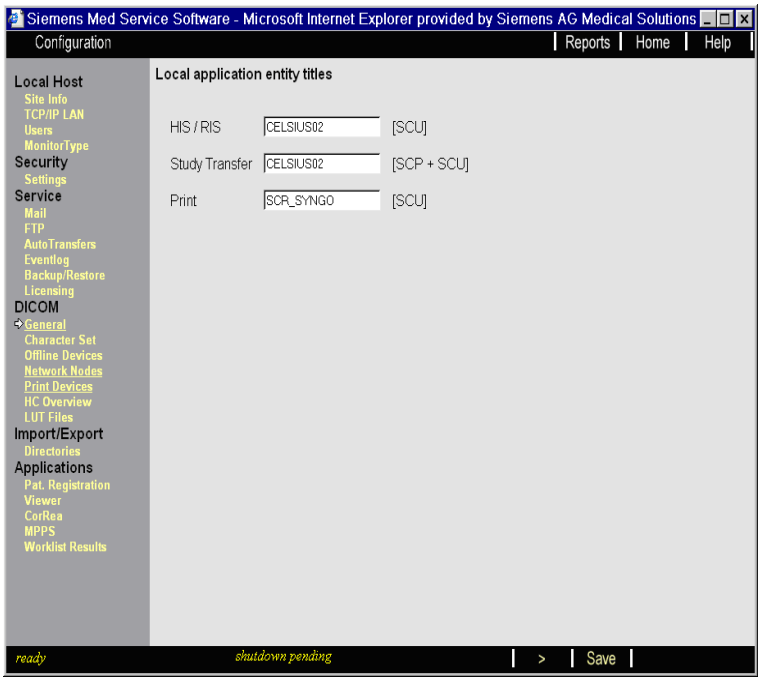


Fig. 20 DICOM General

5. After saving, a message appears - click **OK**.

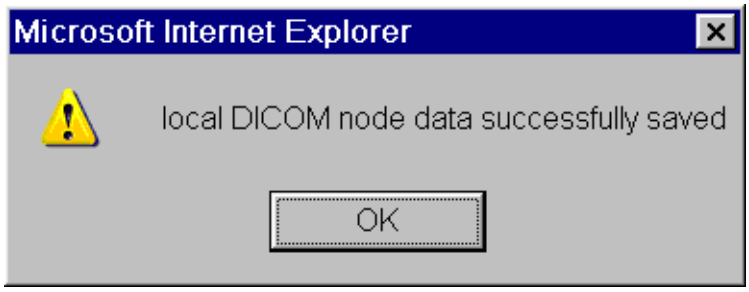


Fig. 21 Message: Local DICOM node saved

6. Click on **>** on the action bar to reach the page **General DICOM Settings**. Do not make any changes - click **Next**.
7. On page **Character Set** do not change anything - just click on **Next**.

Offline Devices

1. **querying device list...** is shown on the progress bar. Wait until querying the **DICOM / Offline Devices** is finished.

NOTE	**If an error message appears regarding locking failure, skip section "Offline Devices" here and perform it in chapter "Configuration of Security Settings" (see page 9 - 22).**

2. Under **Select logical name,** the default **define new** should be selected.
3. Enter Logical Name: **DVD** with the following values:
   - select Drive Type: **CD-ROM drive**
   - select default is checked
   - select Drive Letter: **D:**

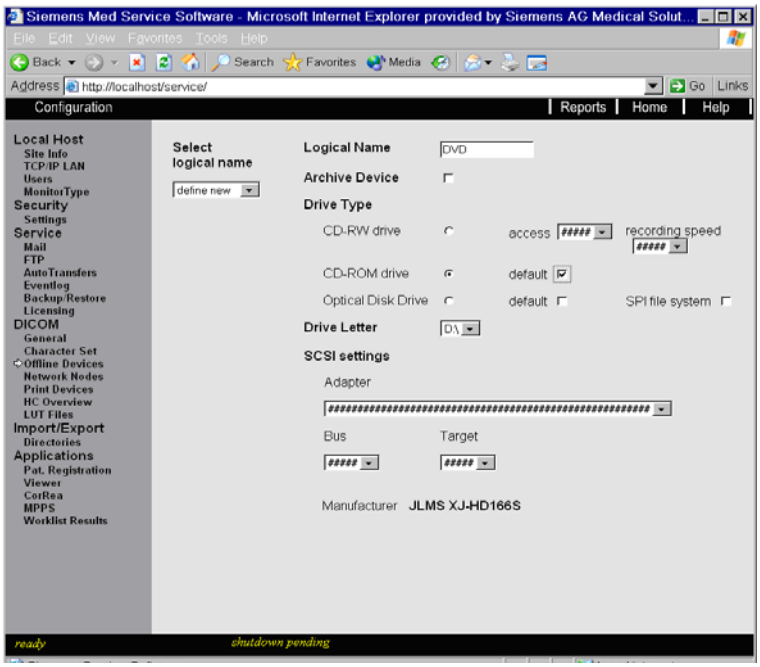


Fig. 22 Offline Device DVD

4. Click on **Save** and wait for the following message:

Fig. 23 Message: Device properties successfully saved

5. Click OK and select logical name **define new** again.

6. Enter Logical Name: **CDWRITER** with the following values:
   - select Drive Type: **CD-RW drive**
   - select access: **READ/WRITE**
   - select recording speed: **>=16X**
   - select Drive Letter: **E:**

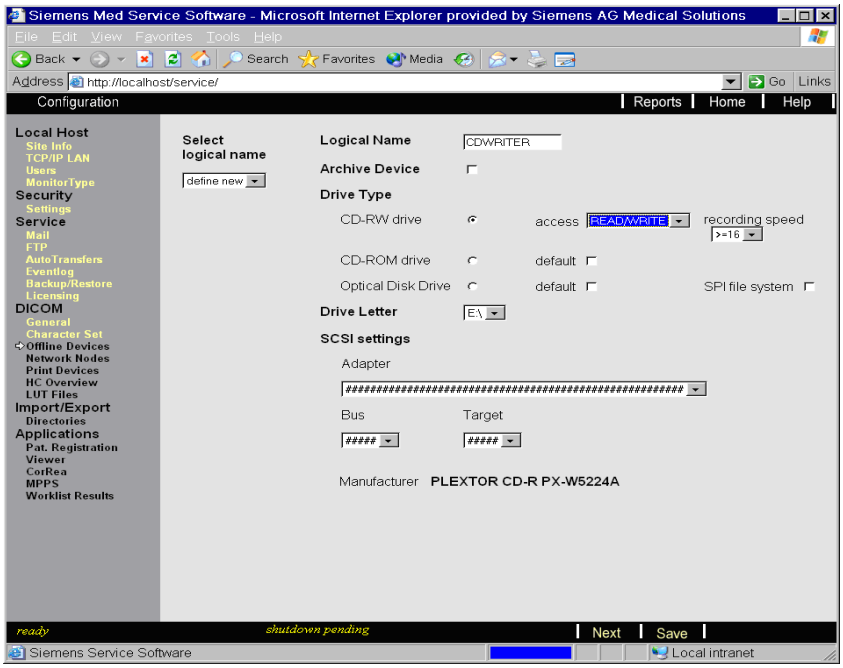


Fig. 24 Offline Device CDWRITER

7. Click on **Save** and wait for the following message:

Fig. 25 Message: Device properties successfully saved

8. Click OK and then Next to reach the following configuration chapter.

Network Nodes

For testing purposes host, logical name, AET and Port must be configured.

NOTE	**The host name is always stored in small letters.**

1. Define new:
   - Host Name **<computer/station name>**
   - **TCP/IP address** of the computer in the local network
   - check **connected by LAN**

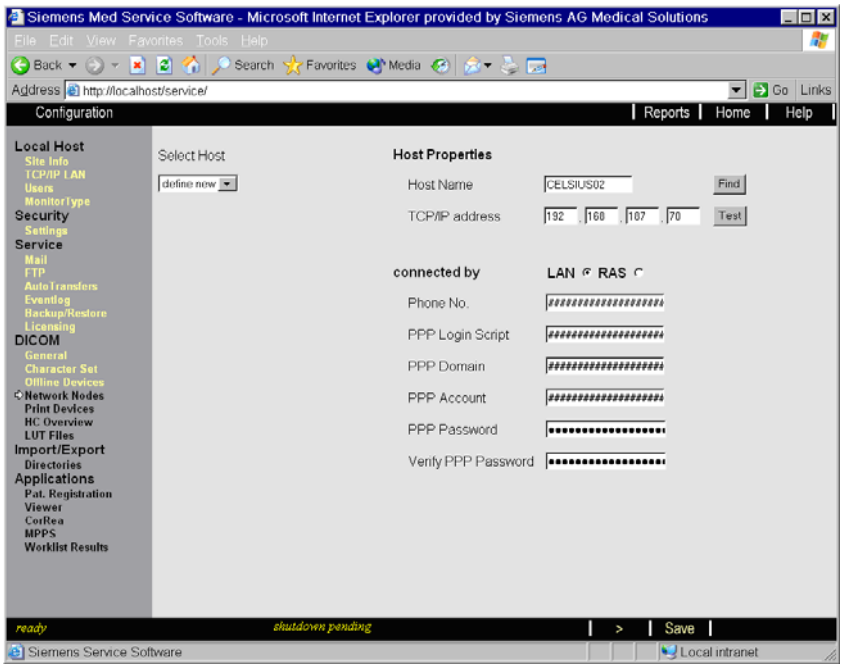


Fig. 26 Define new Host

2. Click on **Save** and wait for the following message:

Fig. 27 Message: host properties successfully saved

3. Click **OK** and afterwards click on **>**.
4. Page **General Node Properties** appears.
5. Click **Next**.
6. No entries or changes for **Print Devices**, **HC Overview** and **LUT Files** are necessary. Therefore click **Next** or **>** on the following pages to proceed with the initial setup.

Configuration of Import/Export Directories

1. On the first page just click on **>**.
2. Select logical HD device: **CDR_OFFLINE**.

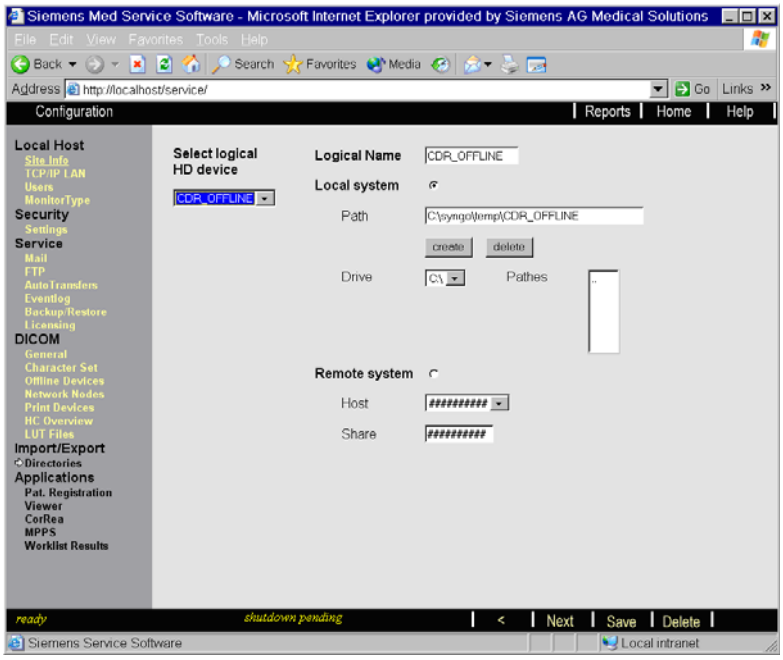


Fig. 28 CDR_OFFINE

3. Check whether **Local System** is selected and that in Path **C:\syngo\temp\CDR_OFFLINE** is shown. If the correct path is not shown:
   - select Drive C:\ and select in Path syngo ⇒ temp ⇒ CDR_OFFLINE
   - check that Path shows C:\syngo\temp\CDR_OFFLINE
4. Click on **Save** - a message appears:

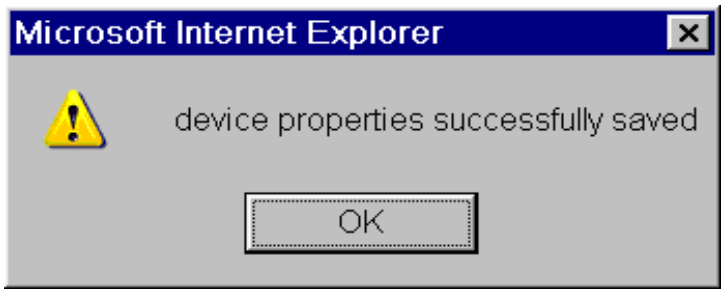


Fig. 29 Message: Device properties successfully saved

5. Click on **OK** and **Next** on the action bar - the configuration is continued with the section Applications.

Applications

The setup of application settings (except Viewer) is not possible because these applications are not installed. Therefore some warning messages appear when going through the initial setup step by step.

1. Click **OK** on the following warning.

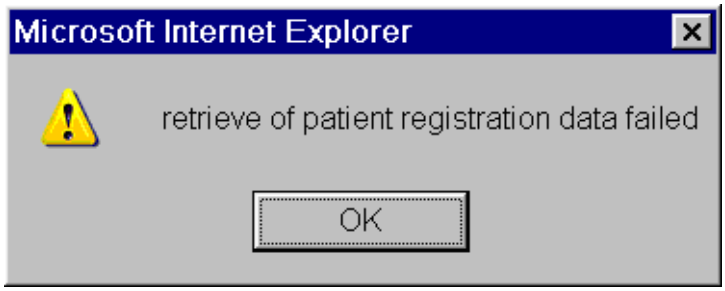


Fig. 30 Warning: Retrieve of patient registration data failed

2. Click **Next** on **Patient Registration** page.
3. Click **Next** on page **Viewer configuration settings**.

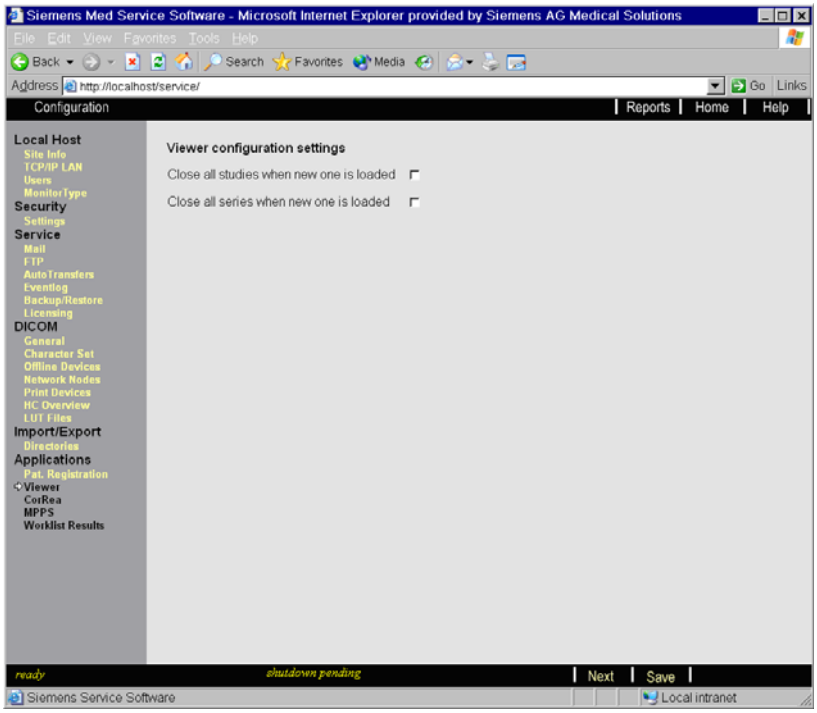


Fig. 31 Viewer Configuration Settings

4. Click **OK** on the following warning.

Fig. 32 Warning: Retrieve of CorRea data failed

5. Click **Next** on **CorRea** page.
6. Click **OK** on the following warning.

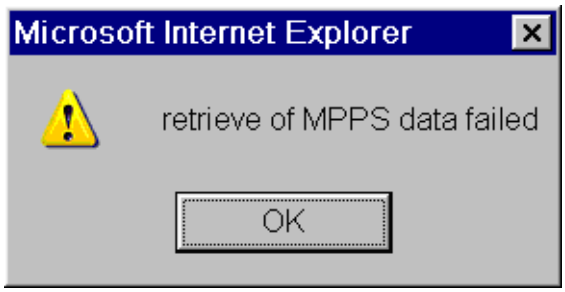


Fig. 33 Warning: retrieve of MPPS data failed

7. Click **Next** on **MPPS** page.
8. Click **OK** on the following warning.

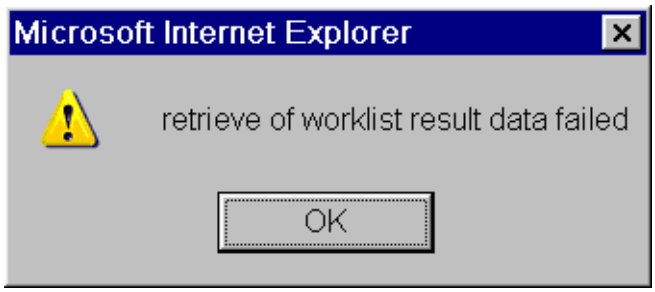


Fig. 34 Warning: Retrieve of work list result data failed

9. Click **Finish** on **Work list result** page, only configuration selection frame is active.

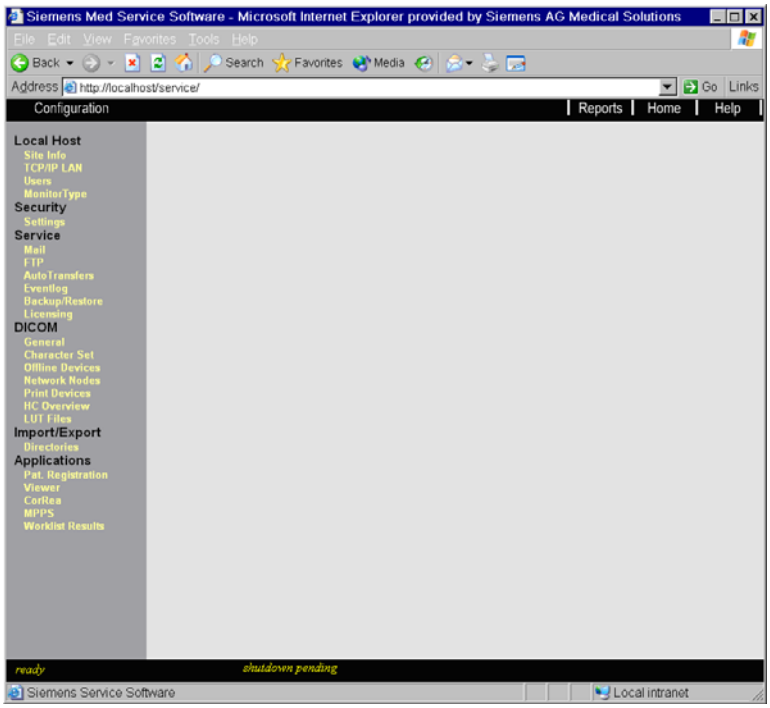


Fig. 35 Finish configuration

Check Configuration of Backup & Restore: SCR Package

1. Go to **Service / Backup&Restore**.
2. Select package **SCR** and check that group Database is available.
3. Select group Database and check that files and directories contain **C:\MBCSCR\syngoBackup**.

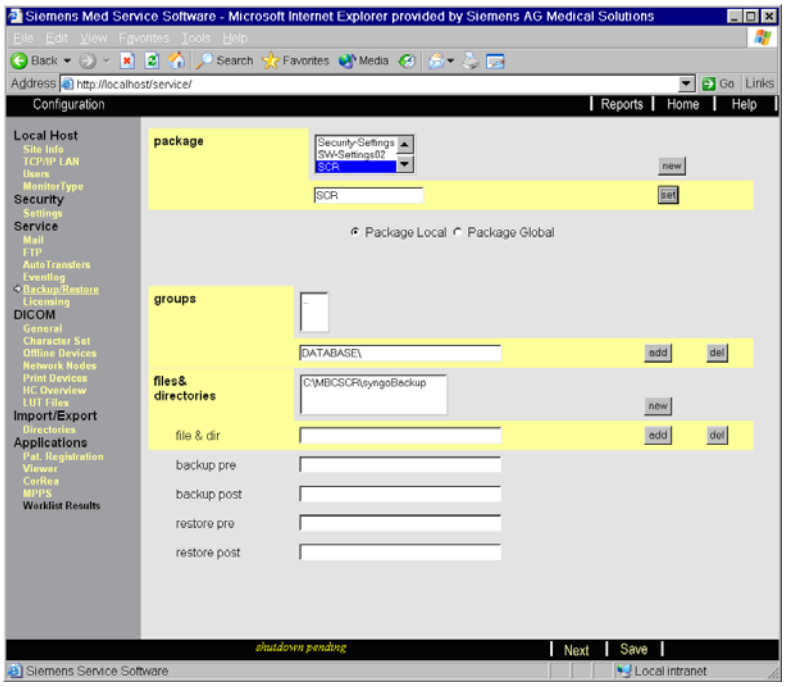


Fig. 36 Backup & Restore Group DATABASE

4. Click **Save** on the action bar.
5. If the following message appears, confirm with **OK**.

Fig. 37 Information message

6. A new message comes up.

Fig. 38 Message: Save completed

7. Click **OK**.
8. Click on **Finish** on the action bar and then on **Home** on the navigation bar.

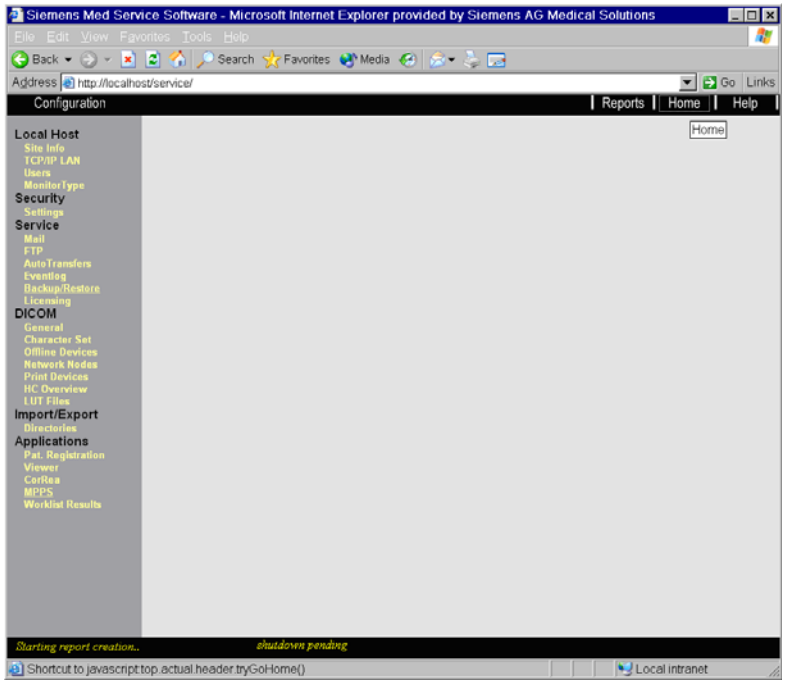


Fig. 39 Starting Report creation

9. Report creation is started automatically. Please wait until message box appears:

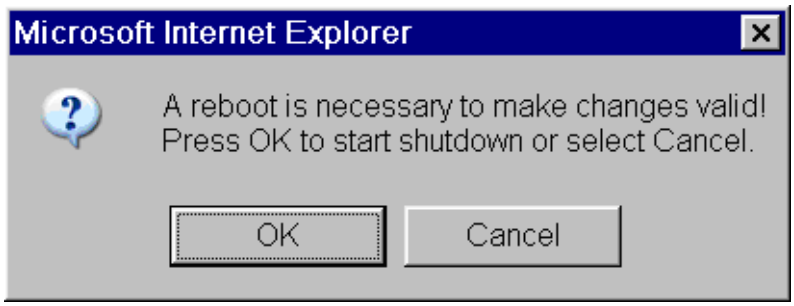

Microsoft Internet Explorer
A reboot is necessary to make changes valid!
Press OK to start shutdown or select Cancel.
OK
Cancel

Fig. 40 Question: Reboot is necessary

10. Click **OK**. Shutdown of syngo begins - be patient. The **restart of syngo** will take about **20 min**.

Caution!	**Do not touch keyboard or mouse while booting until the MammoReport background window appears on high resolution monitors.**

Configuration of Security Settings

The start procedure of syngo is finished when MammoReport Background window is shown on HR monitors and the syngo viewer user interface is displayed on syngo monitor.

NOTE	**Login window is not shown as long as user management is not checked in security settings.**

1. Open Menu **Options** ⇒ **Service** ⇒ **Local Service**: Authentication window is shown: **Enter the service key** you noted before; the first 14 digits into the large field and the last 6 digits into the small field and click **OK**.

NOTE	**For update systems use the service key from the special CD.**

2. Click on service function **Configuration**.
3. Select **DICOM General**. Check that Print shows entry “SCR_SYNGO” (see Fig. 41).

4. If not, enter SCR_SYNGO and click **Save**.

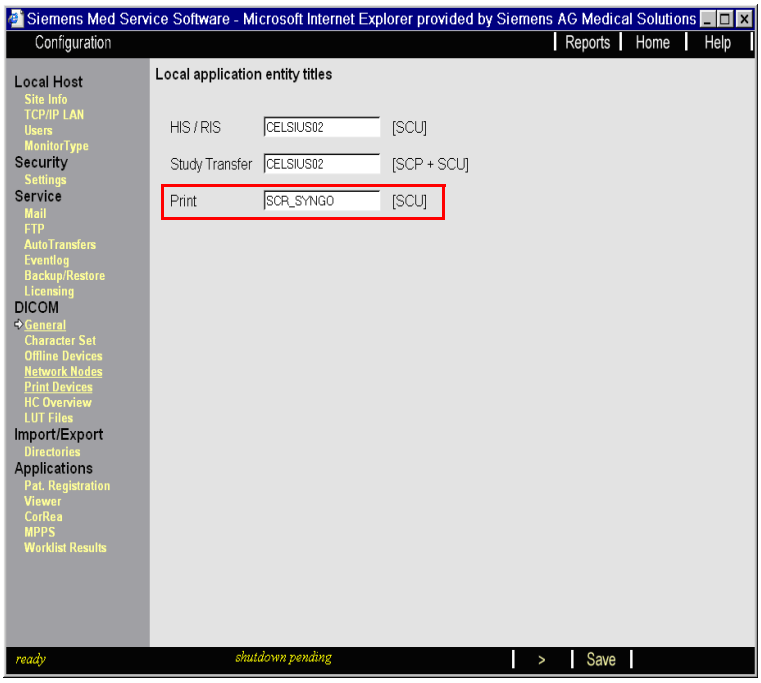


Fig. 41 DICOM General

5. Click **Next** and go to **Security / Settings**.

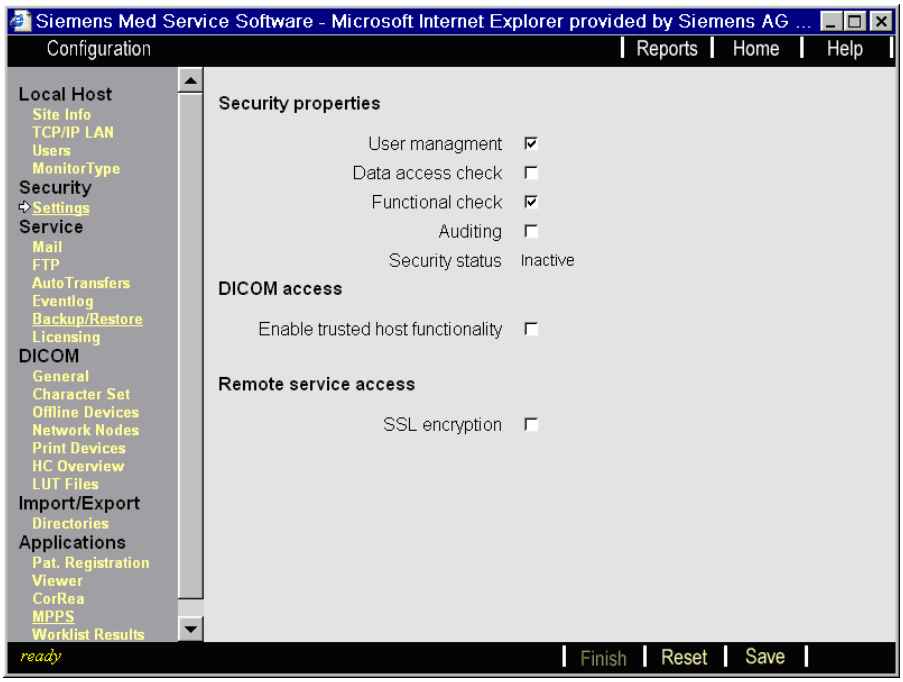


Fig. 42 Security Properties

6. Check **User management** and **Functional check**; click **Save**.

7. A Message appears - click **OK**:

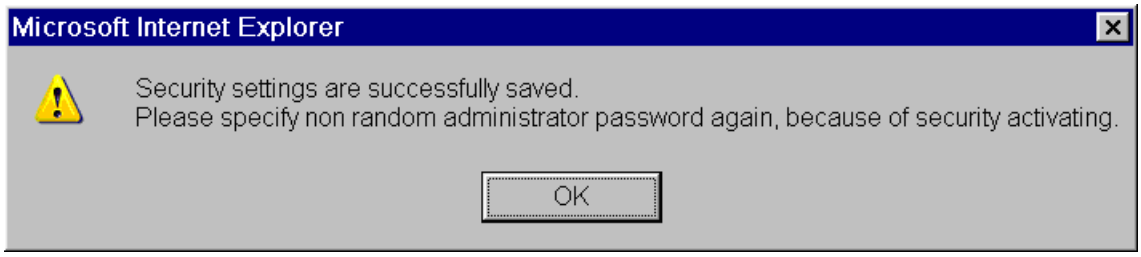

Microsoft Internet Explorer
Security settings are successfully saved.
Please specify non random administrator password again, because of security activating.
OK

Fig. 43 Message: Security setting successfully saved

8. On the page for account settings enter the password again for Administrator, confirm with the same password and click on **Save**.

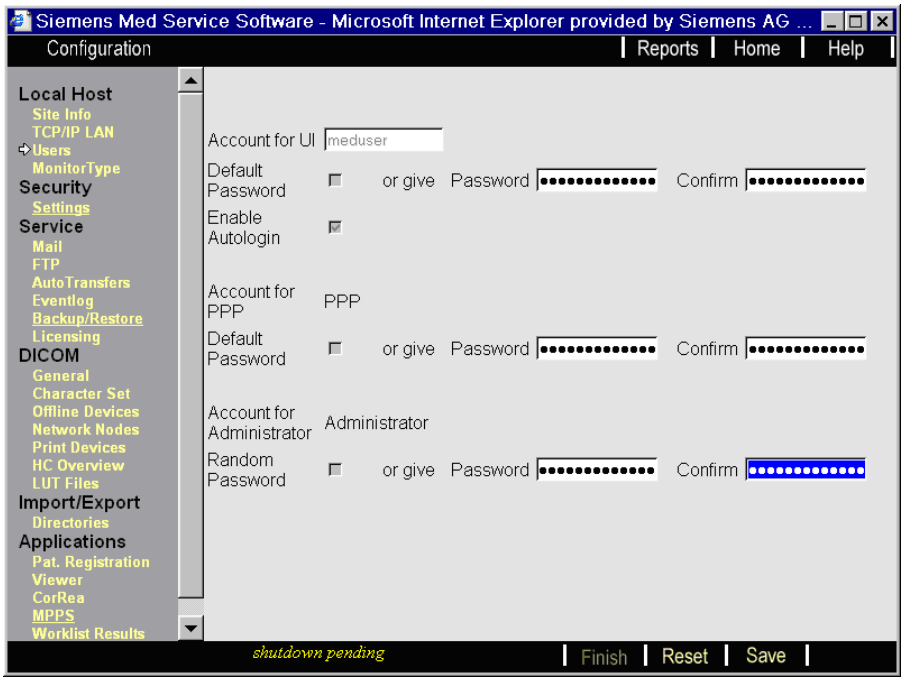


Fig. 44 Give Administrator password

NOTE **If Offline Devices could not be configured yet, perform this now (refer to chapter Offline Devices on page 9-12).**

9. Click **Finish** and then **Home**.
10. Report creation starts - wait for finish.
11. A message comes up recommending the next syngo reboot.

12. Remove any CD/DVD from D:\ or E:\ **before** you click on **OK**.

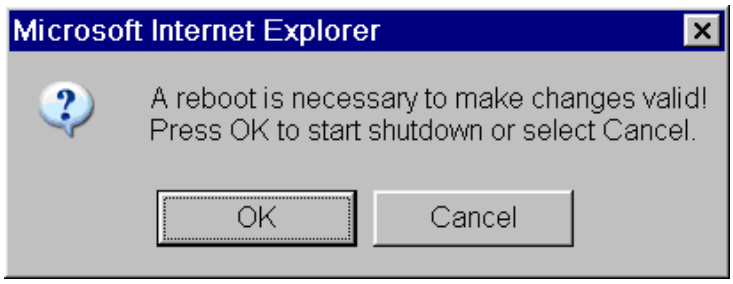

Microsoft Internet Explorer
A reboot is necessary to make changes valid!
Press OK to start shutdown or select Cancel.
OK
Cancel

Fig. 45 Question: Reboot is necessary

13. Click **OK** and the restart of syngo will finish at least with the **syngo login window**.

Finalize Initial Configuration

To finalize syngo configuration, some further settings must be performed.

1. Add in syngo **User Management:**
   - Group **Mammography**
   - Role **Radiologist**
2. Add in **SCR Service** the license keys for SCR features.
3. Check the **Online Help**.
4. Configure **Browser**.
5. Configure **Search window**.

Settings in syngo User Management

1. Log in as syngo user **administrator** with password.
2. Open in main Menu ⇒ Options ⇒ Security Configuration ⇒ **User Management**.

NOTE	**If during installation in Chapter "Check User Management for existing Background User" errors appeared, this check is NECESSARY!**

3. Select_ "Users"._

4. The user “MBC_BACKGROUNDUSER” shall be available in the right window.

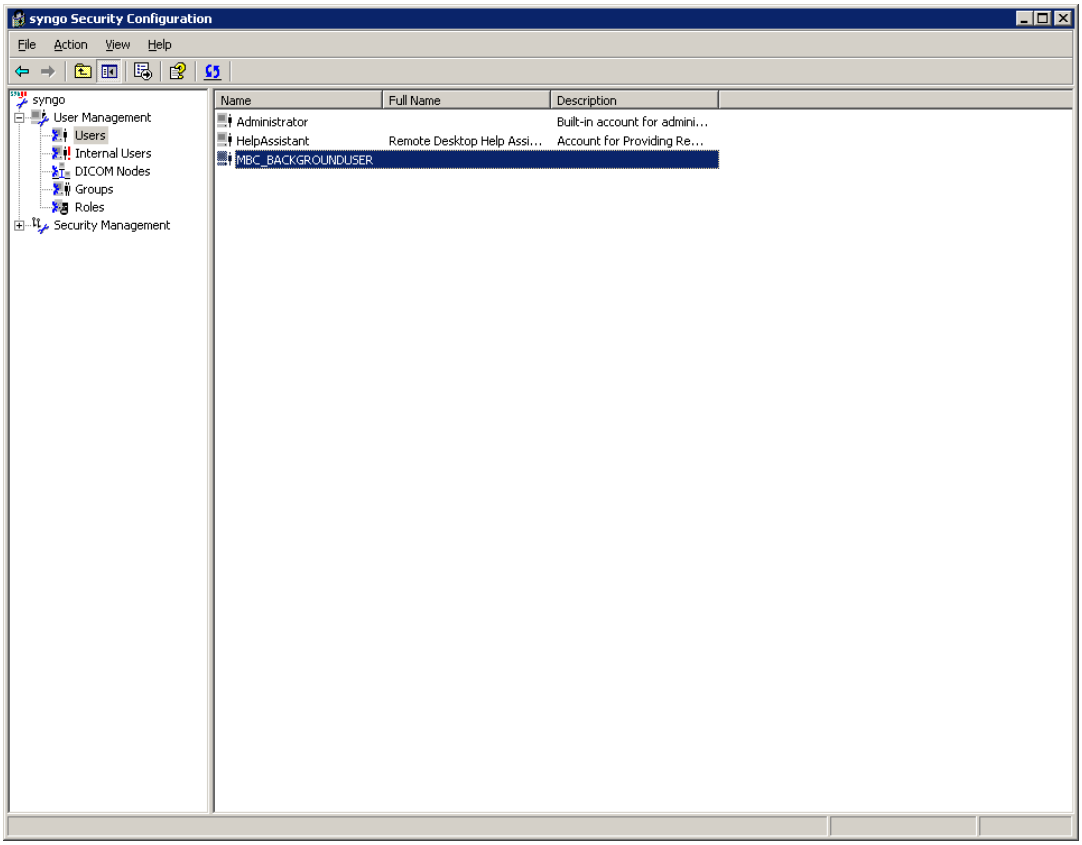


Fig. 46 Syngo Security Configuration window

5. Double click MBC_BACKGROUNDUSER” and click on the tab “Member Of”. Under “Assigned”, DICOM_GROUP shall be mentioned.

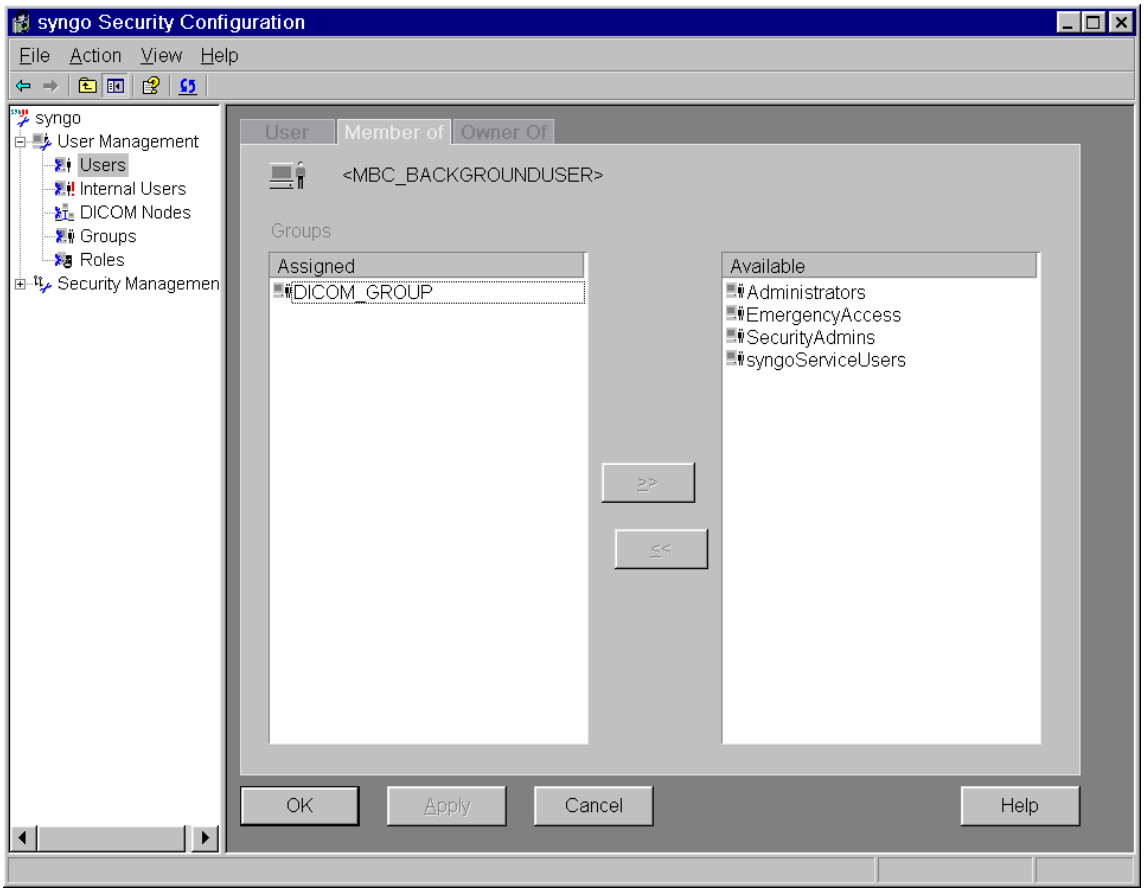


Fig. 47 Syngo Security Configuration window

6. Click on tab “Owner Of”. Under “Assigned”, DICOM_GROUP shall be mentioned as well.

Non Existent User

If the user in *Settings* step 4 is not existent (see Page 9 - 23), perform the following steps.

1. Create the user “MBC_BACKGROUNDUSER” manually with password.
2. Click on the tab “Member Of”. Select on the right side “DICOM_GROUP” and click on the << button.
3. Accept the appearing dialog with Yes..

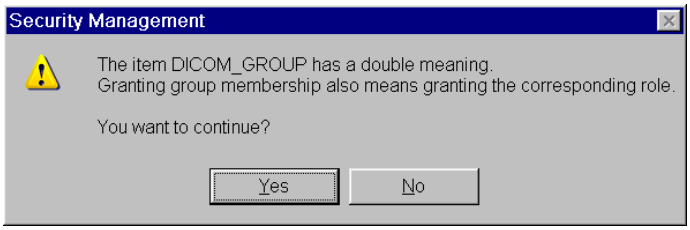

Security Management
The item DICOM_GROUP has a double meaning.
Granting group membership also means granting the corresponding role.
You want to continue?
Yes
No

Fig. 48 Security Management

4. The result shall be as shown.

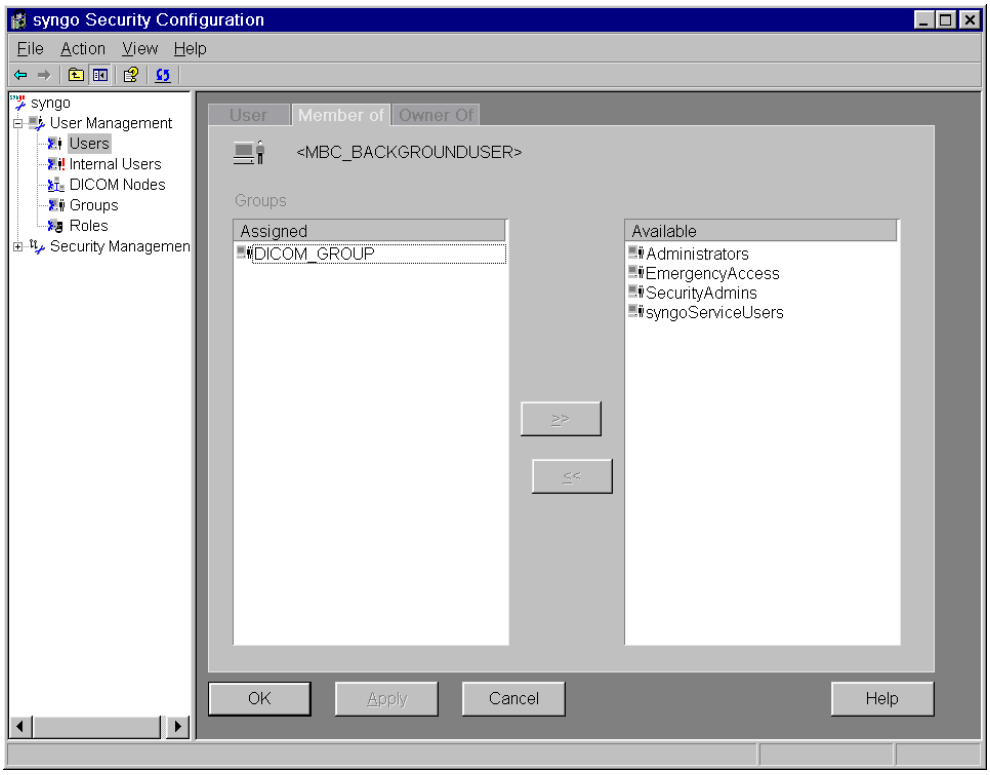


Fig. 49 Syngo Security Configuration window

5. Click on tab “Owner Of” and check that “DICOM_GROUP” is shown.

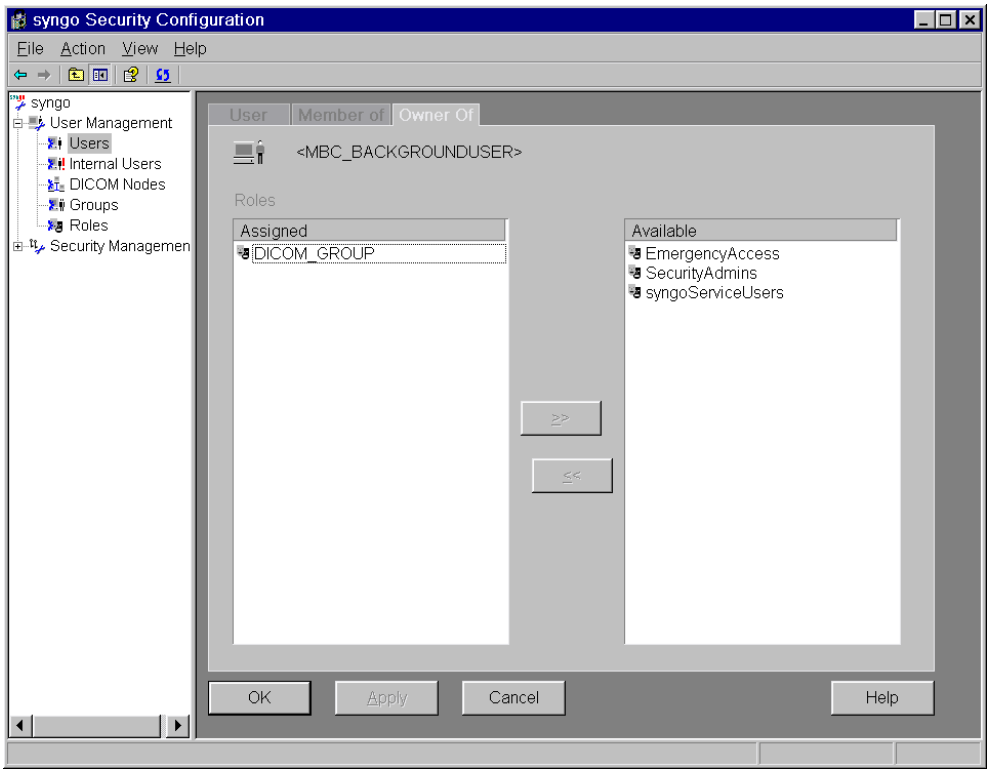


Fig. 50 Syngo Security Configuration window

No Present DICOM Group

If the DICOM_GROUP is not present in *Settings* steps 5 and/or 6 (see Page 9 - 23):

1. Display the user “MBC_BACKGROUNDUSER”.
2. Click on the tab “Member Of”. Select on the right side “DICOM_GROUP” and click on the << button.
3. Accept the appearing dialog with **Yes**.

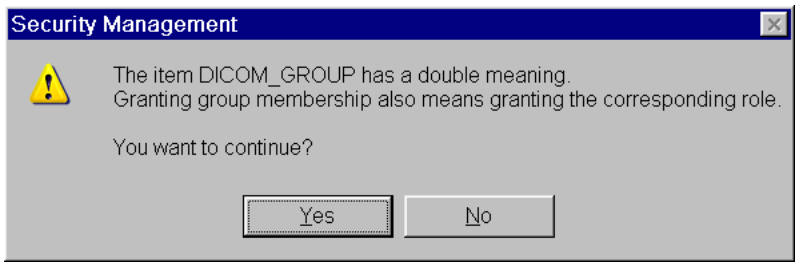

Security Management
The item DICOM_GROUP has a double meaning.
Granting group membership also means granting the corresponding role.
You want to continue?
Yes
No

Fig. 51 Security Management

4. The result shall be as shown.

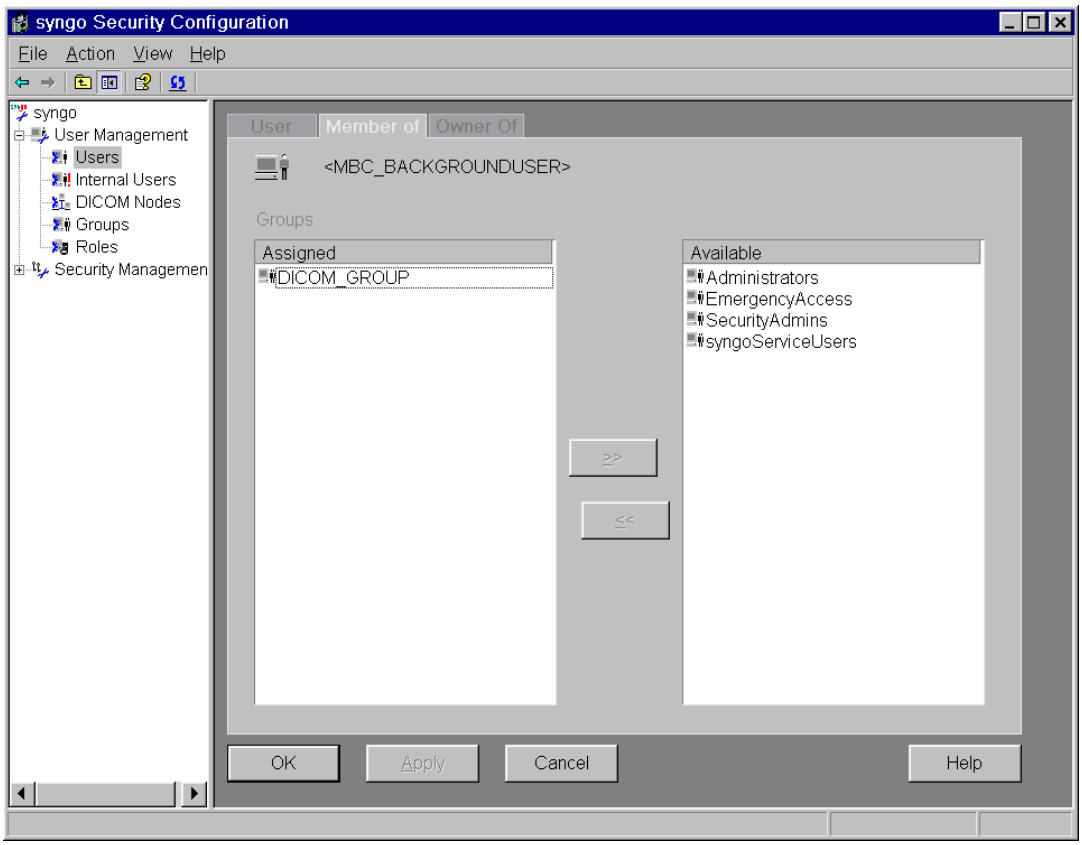


Fig. 52 Syngo Security Configuration window

5. Click on tab “Owner Of” and check that “DICOM_GROUP” is shown.

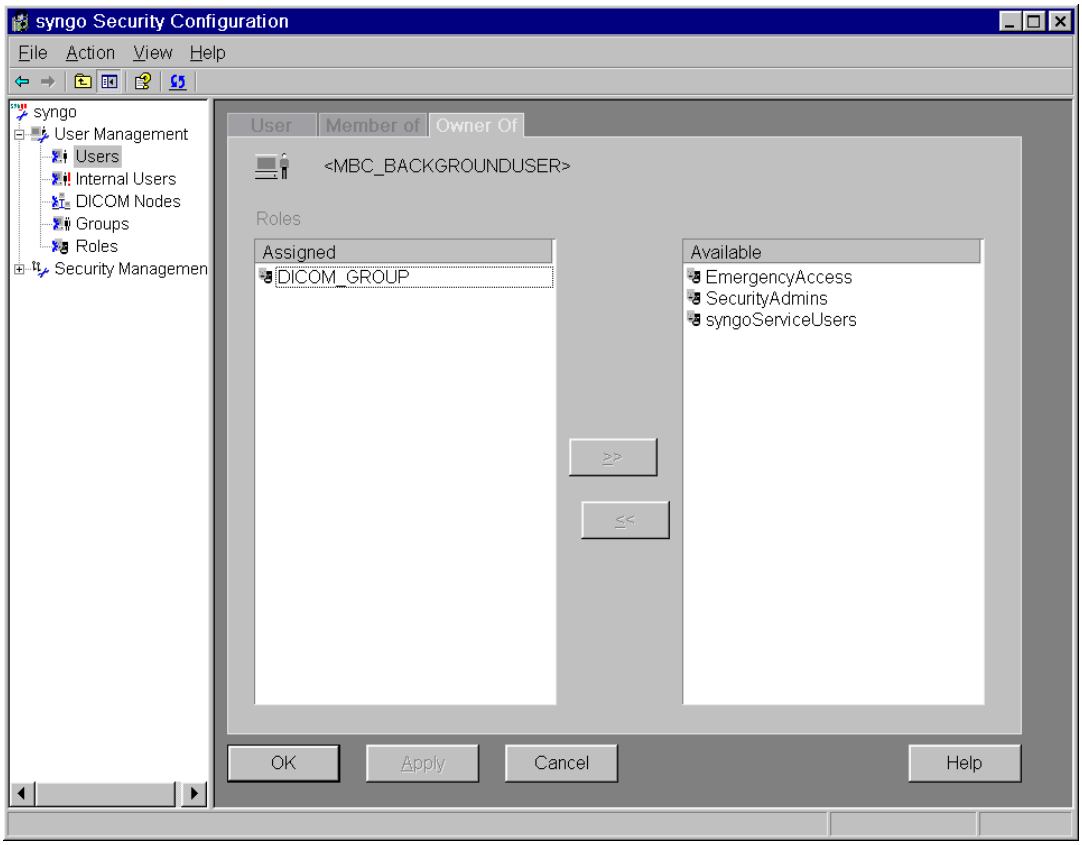


Fig. 53 Syngo Security Configuration window

6. Click on **Groups** in the tree view and open the context Menu with **right mouse click**.

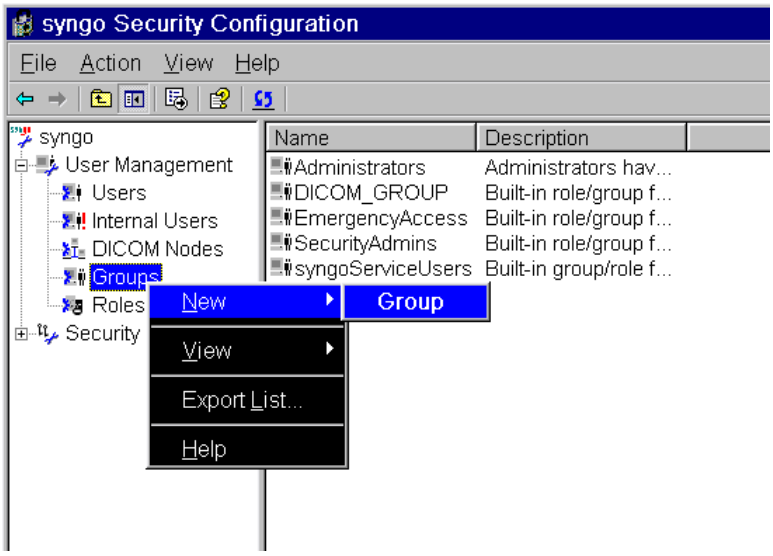


Fig. 54 Open Context Menu: Groups ⇒ New ⇒ Group

7. Open page Group with click on **New** ⇒ **Group**.

8. Enter **Mammography** in Name and Description - click **OK**.

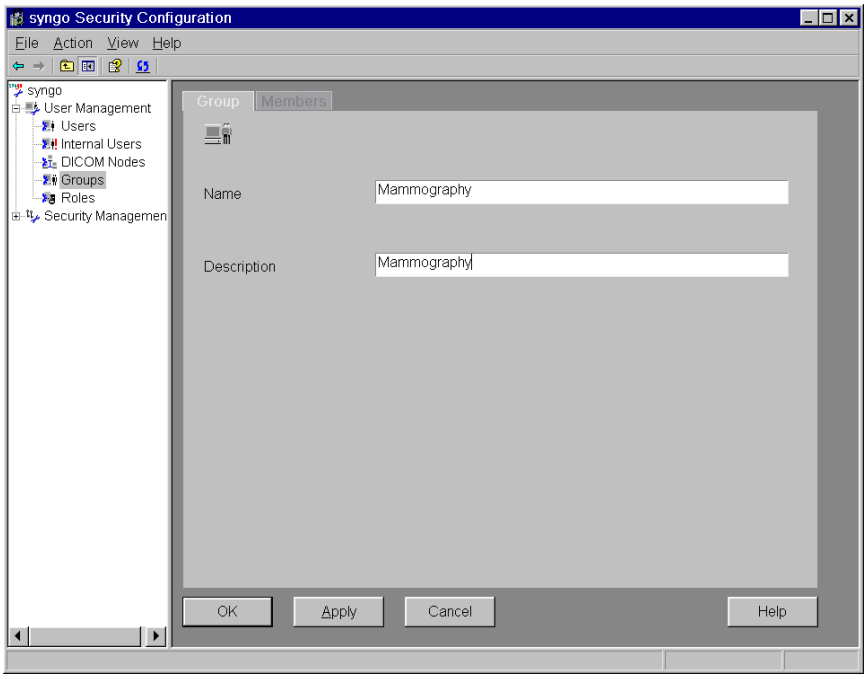


Fig. 55 Group: Mammography

9. Click on **Roles** and open the context menu with right mouse click.
10. Open page Role with click on **New** ⇒ **Role**.
11. Enter **Radiologist** in Name and Description - click **OK**.

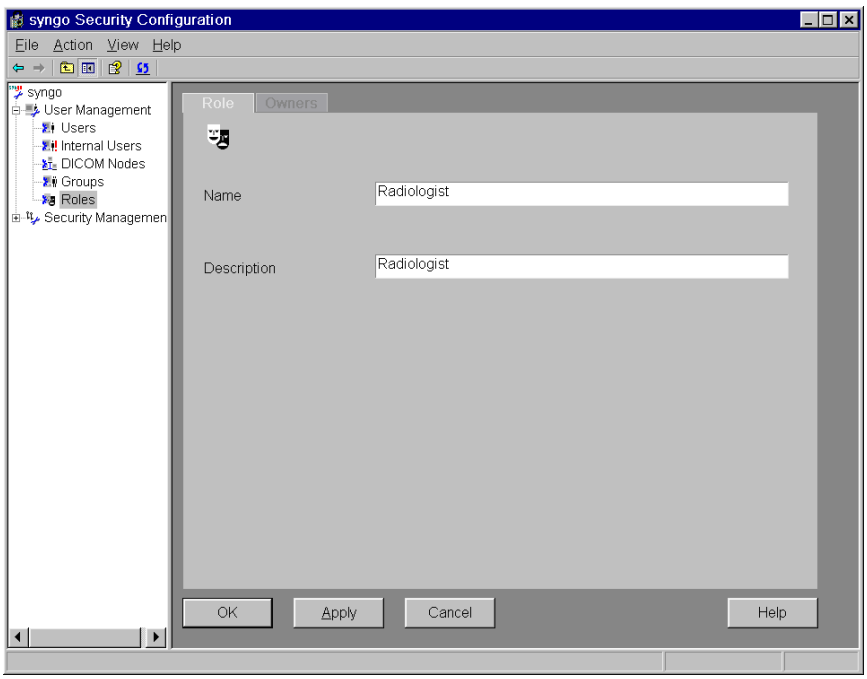


Fig. 56 Role: Radiologist

12. Close window Security configuration with click on **X**.

SCR Service: Enter License Keys

The MammoReport^{Plus} software licenses are protected by a dongle connected to the parallel port of the PC. Especially the main modules of the MammoReport^{Plus} system are protected with a dongle in conjunction with FlexLM™ software (by Globetrotter) integrated in these software modules.

NOTE	**The license number that is requested directly by the production line is delivered via file.**

To check the license number a manual procedure is necessary.

1. Log in to SCR Service from Patient browser Menu ⇒ Options ⇒ **SCR Service** with user name **service**; enter password.

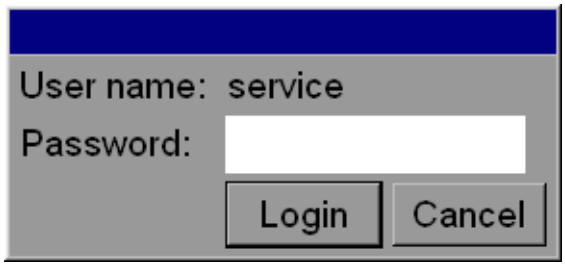


Fig. 57 Login Window

2. Click on tab **Licensing** to check the valid license number.

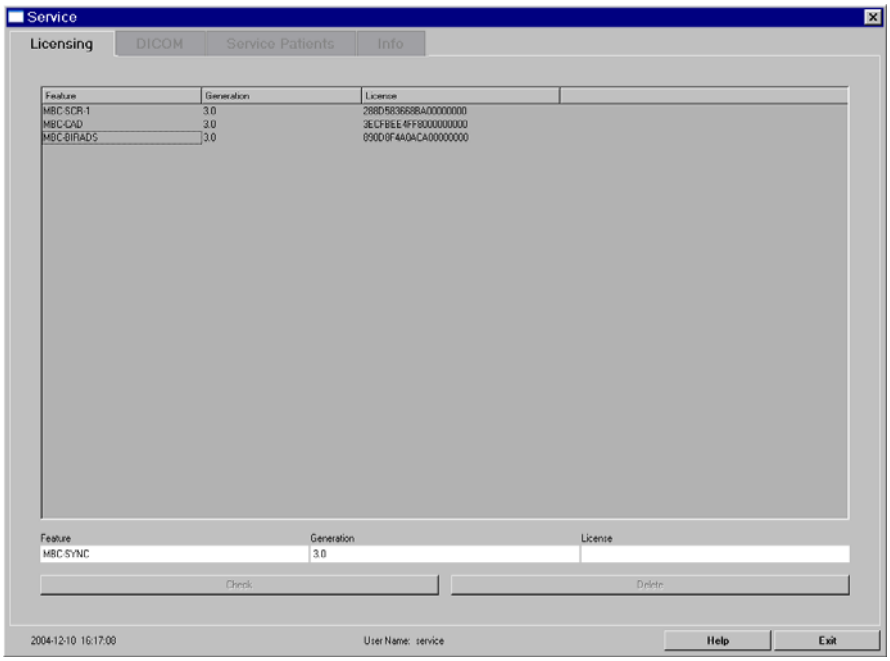


Fig. 58 SCR Service: Licensing

3. Enter in field **Feature** type **MBC-SCR-1**.
4. Enter in field **Generation** type **3.0**.
5. Enter in field **License** type the delivered license number (contains 20 characters).

6. Then click on **Check** - after that the valid license number will be listed in this window permanently.

NOTE	**The file license.dat includes all information concerning valid licenses that are already installed on the workstation during the installation process. The file is stored on drive C:\MBCSCR.**

7. If more licenses need to be entered, use the same procedure as described for MBC-SCR-1. The following features are available:
   - MBC-BIRADS / 3.0
   - MBC-CAD / 3.0
   - MBC-SYNC / 3.0

Check Online Help

1. Click on button **Help** - near Exit in the right corner.
2. Acrobat Reader opens with **Software License Agreement** window.
3. Click on button **Accept** and check that Siemens Online Help Mammo Report Plus is available.
4. Exit SCR Service with click on **Exit** button.

Configure syngo Patient Browser

1. Open syngo Patient browser from main Menu or with click on the button.
2. Select Patient browser Menu **View** ⇒ **Source** and deselect **1 Scheduler**.
3. The scheduler icon disappears from Patient browser desk top.
4. Close syngo Patient browser.

Configure Search Window

1. Open with main Menu ⇒ **Options** ⇒ **Configuration** the syngo Configuration Panel:

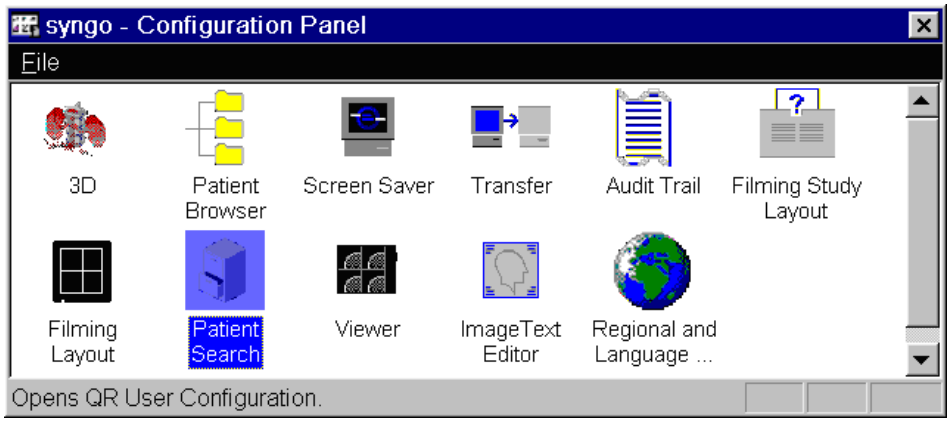


Fig. 59 syngo Configuration Panel

2. In syngo Configuration Panel, click on icon **Patient Search** - the window Patient Search Configuration opens.
3. Use **Modality list box** to scroll down until **Mammography** appears.

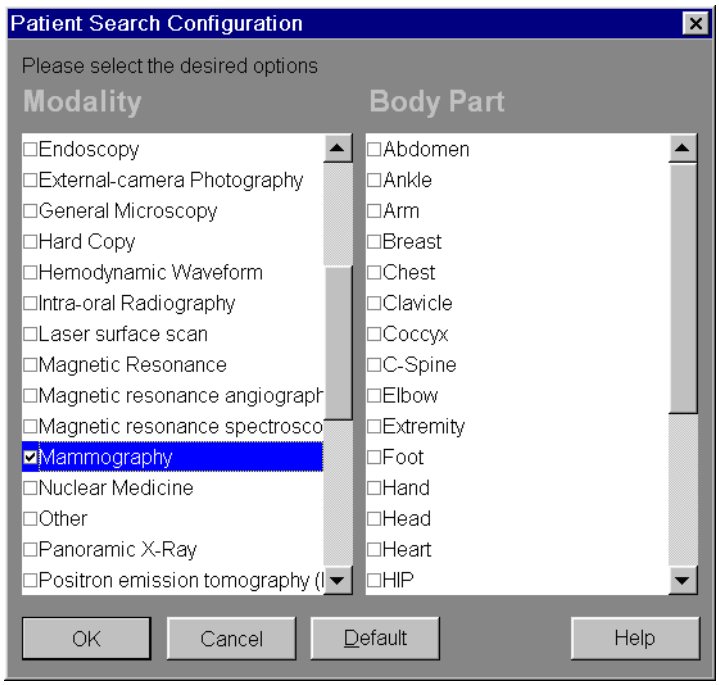


Fig. 60 Patient Search Configuration

4. **Check** Modality **Mammography** as additional search option.
5. Click **OK** and continue with Final Inspection Test.

NOTE	**Afterwards continue with "Installation and Start-up" (SPB7-420.814.20 ...).**

Testing

The following tests are recommended to test

- the functionality of the MammoReport^{Plus} program parts **MammoBrowser** and **High Resolution Viewer** (Test 1, 2 and 3)
- Monitor Quality (Test 4)
- Check Mammogram Display (Test 5)
- Shutdown of the system (Test 6)

Start-up Procedures for Monitor Test

Before testing a monitor device, the device should be warmed-up for approximately 30 minutes prior to evaluation so that the electronics can stabilize. In addition, the general system functionality should be verified by a quick review of the TG18-QC test pattern **(Patient: AAPM_TG18, multi).**

The pattern should be evaluated for distinct visibility of the 16 luminance steps, the continuity of the continuous luminance bars at the right and left of the pattern, the absence of gross artifacts (such as tearing or smearing of edges, excessive blur, or flickering), and the proper size and positioning of the active monitor area.

The pattern should be centered in the active area of the device, and all borders of the pattern should be visible. Dust and smudges on the face of the monitor will absorb, reflect, or refract emitted light, possibly resulting in erroneous test results.

Before testing a monitor device, the cleanliness of the faceplate should be verified.
If the faceplate is not clean, it should be cleaned following the manufacturers recommendations.

Test 1: Login as Service User

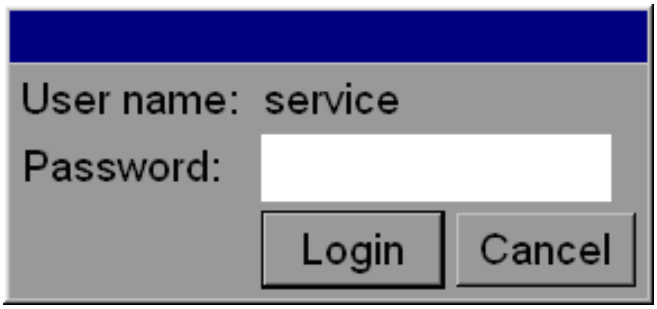
To access the SCR Service user interface follow the steps below: 1. Log in to syngo. 2. Select **Options > SCR Service** in Patient Browser menu. 3. The MammoReport^{Plus} start screen appears along with the login window. Enter password for service user.	**Test OK?**
** Other language settings for the Login window, refer to table below.*	
Expected Result The Login window disappears, and the SCR Service Interface displays on the third monitor.	☐ Yes ☐ No
	Comment:

Fig. 1 Login window

English	French	German	Spanish	Test OK?
User name	Nom d'utilisateur	Benutzername	Nombre de usuario	☐ Yes ☐ No
Password	Mot de passe	Kennwort	Contraseña	☐ Yes ☐ No

Tab. 1 Language Text for Login Window

Test 2: Selecting Patients

1. Select the **Service Patients Tab** to display the service patient list. 2. In the **Patient List** select patients **AAPM_TG18, multi** and **Patient 01, Null Eins.** 3. Click **View Now** button.	**Test OK?**
Expected Result The SCR Service UI starts with the **Licensing** tab. After selecting the patients **AAPM_TG18, multi** and **Patient 01, Null Eins** on the **Service Patients** tab, these names appear in grey. After the **View Now** button has been clicked, the High Resolution Viewer starts automatically.	☐ Yes ☐ No

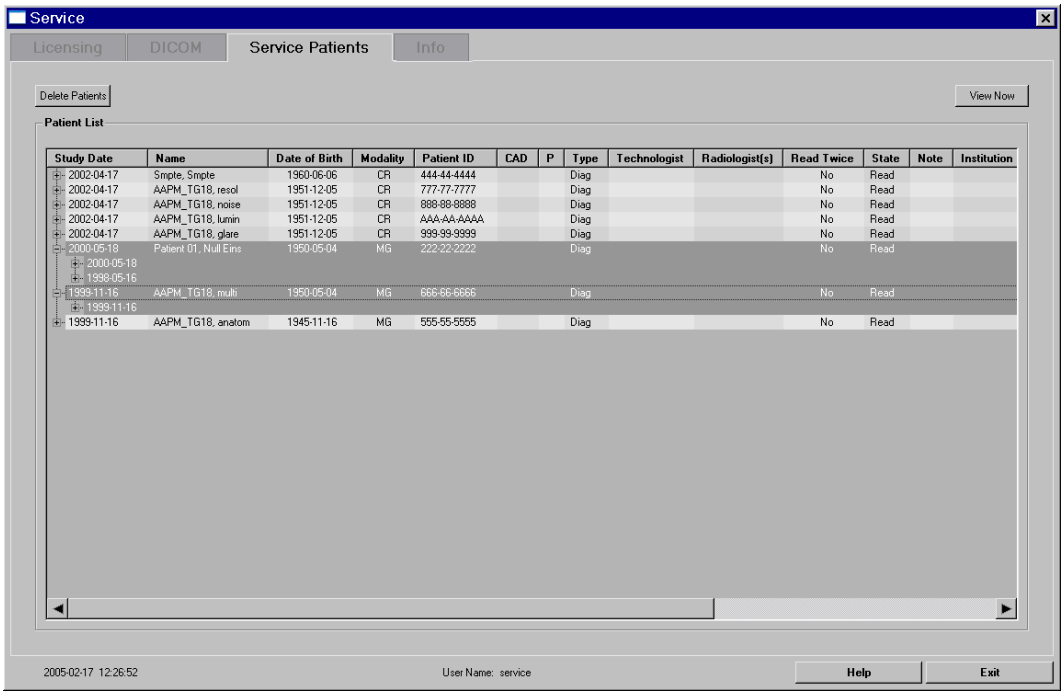


Fig. 2 Patient List tab with Patient AAPM_TG18, multi selected

Test 3: Reviewing Test Images

1. Open MammoNavigator via Toolbar button .
The **MammoNavigator** is displayed on the right monitor of the **High Resolution Viewer**.

2. The images are arranged according to overview tiling, see Fig. 3

3. Change the monitor tiling by clicking the **Single Tiling** button for both monitors, see Fig. 4

4. Drag and drop the images from the image area to both **Monitors** in the MammoNavigator.

Expected Result

The **AAPM_TG18, multi** images are displayed on the left and right high resolution monitor as indicated in the MammoNavigator, see Fig. 4

Comment:

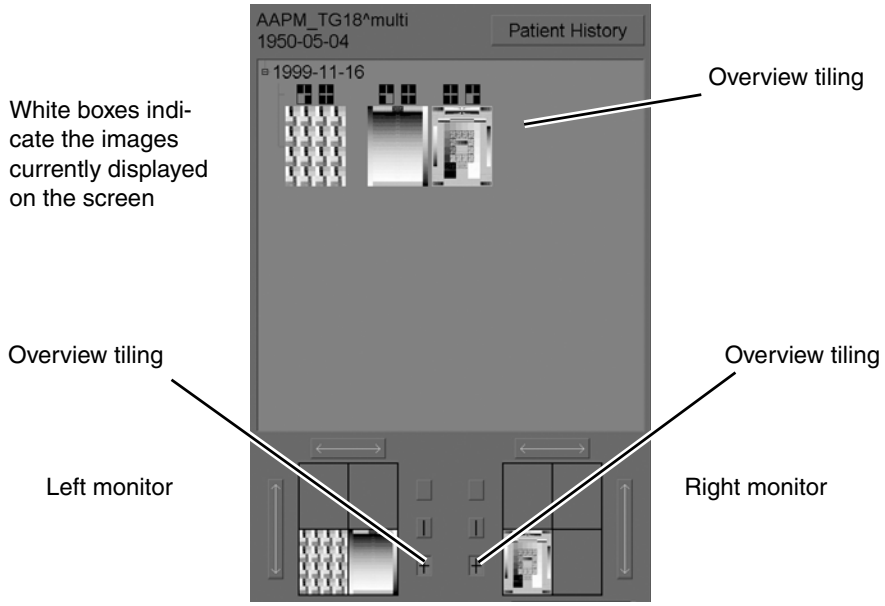


Fig. 3 MammoNavigator window

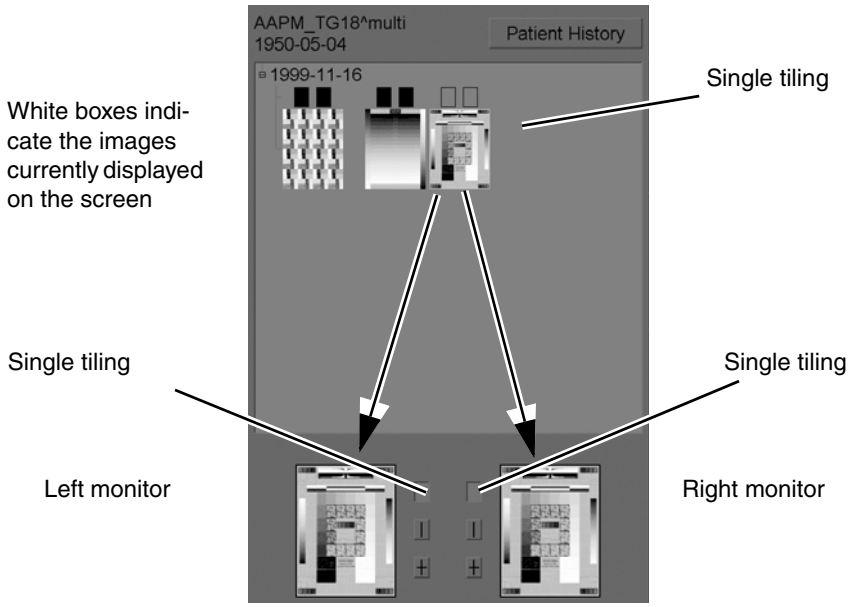


Fig. 4 Single tiling view button.

Comment:

5. Click with the left mouse button in one image of the full screen display. Be sure that it is clicked in the large images, not the Mammo-Navigator.

6. Hold left mouse button pressed and move the mouse pointer on the image.

Test OK?

☐ Yes ☐ No

Expected Result

1. Magnifier is opened and moved on the image. The image must not flicker while the magnifier is moved on the image.

2. No artefacts are left by the magnifier on the image.

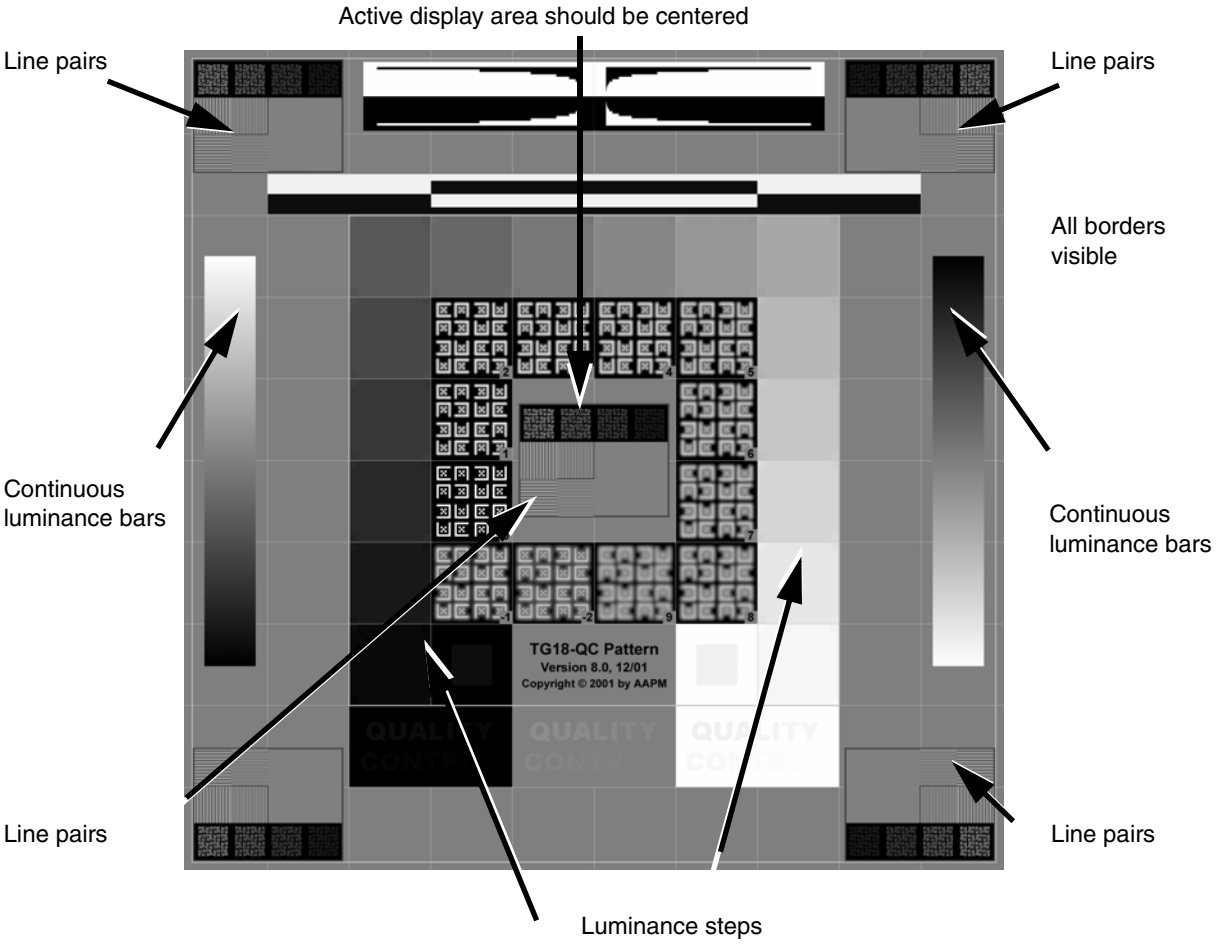
Note: With TFT monitors, the area in the magnifier is refreshed slower; this is not an error.

☐ Yes ☐ No

Test 4: Monitor Quality

Check Geometrical distortion

	Monitor 1	Monitor 2
1. Check margins, lines, angle and grid lines. Borders should be completely visible. Lines should be straight. Active display area should be centered on the screen.	☐ Yes ☐ No	☐ Yes ☐ No
2. Check luminance steps. All luminance steps should be visible.	☐ Yes ☐ No	☐ Yes ☐ No
3. Check luminance bars. All luminance bars should be displayed continuously.	☐ Yes ☐ No	☐ Yes ☐ No



Check Display Artifacts

Expected Result	Monitor 1	Monitor 2
No flicker (time related) and gitter (geometry related)	☐ Yes ☐ No	☐ Yes ☐ No

Check Resolution

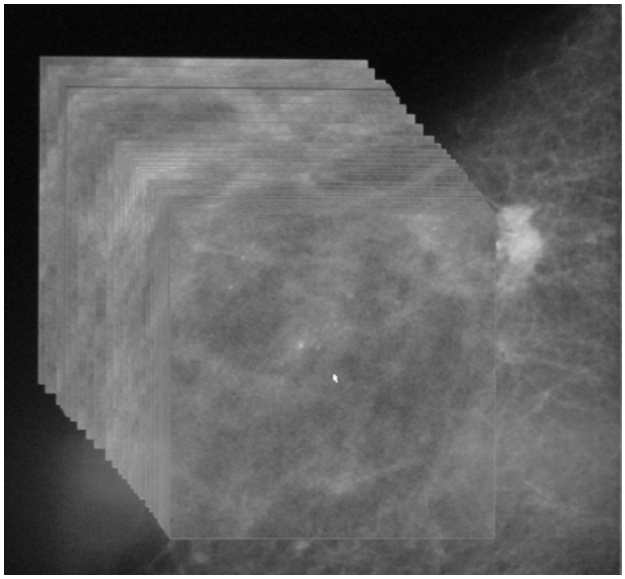
Expected Result	Monitor 1	Monitor 2
Visibility of the line pair patterns (center and in all four angles)	☐ Yes ☐ No	☐ Yes ☐ No

Check Monitors

Expected Result	Monitor 1	Monitor 2
Same quality and adjustment	☐ Yes ☐ No	☐ Yes ☐ No
No main differences	☐ Yes ☐ No	☐ Yes ☐ No

Test 5: Review Mammograms

The following test is necessary to check the correct display of mammograms.

1. Click **Next Patient** + to display **Patient 01, Null Eins**. 8 images are displayed. 2. Click **Next Step** → to display the MLO images. 3. Click on **Full Resolution** . 4. Use the **Magnifier** on both images. 5. Select again **Next Step** → to display the CC images. 6. Click again on **Full Resolution** and use the **Magnifier**	**Test OK?**
Expected Result 1. No parts of the previous image remain on the screen. 2. Moving the magnifier must not leave artefacts on the image. Artefacts are shown in the following example.	☐ Yes ☐ No
	

Test 6: Shutting Down the System

1. Click the **Exit** button on the tool bar of the High Resolution Viewer. 2. Select **Options > End Session.** 3. Select **Shutdown system**. Press **Yes**.	**Test OK?**
Expected Result 1. The High Resolution Viewer will be closed. 2. The MammoReport^{Plus} software is quit and the computer is turned off.	☐ Yes ☐ No

English	French	German	Spanish	Test OK?
Exit	Quitter	Beenden	Salir	☐ Yes ☐ No

Tab. 2 Language Text for Exit button

Test Summary

Test Person	
Serial No.	
Date/Time	
Test Result	
Signature	

Test Results

Tested functionality	Test OK?
Test 1: Login as Service User	☐ Yes ☐ No
Test 2: Selecting Patients	☐ Yes ☐ No
Test 3: Reviewing Test Images	☐ Yes ☐ No
Test 4: Monitor Quality	☐ Yes ☐ No
Test 5: Review Mammograms	☐ Yes ☐ No
Test 6: Shutting Down the System	☐ Yes ☐ No

NOTE	**Fill out document “Report” SPB7-420.813.20.**

Chapter	Page	Change
1	1-4f.	add changes Delete section “syngo installation”
2		delete former chapter 2 “syngo installation”
all		minor changes in all chapters
Appendix	A-7	Add section “Reinstalltion of BARCO TFT drivers”

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BIOS Settings Celsius R610

Check the BIOS settings.

Main		
Parameter	**Parameter in Submenu**	**Setting**
System Time:		Actual Time
System Date:		Actual Date
Legacy Diskette A:		1.44/1.25 MB 3½”
Primary Master		CD-ROM
	Type:	Auto
	Transfer Mode:	*Disabled*
	LBA Translation:	*Disabled*
	32 Bit I/O:	Enabled
	PIO Mode:	PIO 4
	Ultra DMA Mode:	Mode 2
	SMART Monitoring:	*Disabled*
Primary Slave		None
Secondary Master		CD-ROM
	Type:	Auto
	Transfer Mode:	*Disabled*
	LBA Translation:	*Disabled*
	32 Bit I/O:	*Enabled*
	PIO Mode:	PIO4
	Ultra DMA Mode:	Mode 2
	Hide Mode:	*Disabled*
	SMART Monitoring:	*Disabled*
Secondary Slave:		None
Installed O/S		Win2000/WinXP
System Memory		640 KB
Extended Memory		3406848 KB
System Information		
	BIOS Version:	1.06.1357
	BIOS Build Date:	09/19/03
	Ident No.:	
	System Name:	CELSIUS R610
	System Version:	
	System Serial:	YB….
	Board Name:	S26361-D1357
	Board Version:	G

	Chassis Asset Tag :	
	MAC Address	xx.xx.xx.xx.xx.xx

Advanced			
Parameter	**Parameter in Submenu**	**Parameter in Submenu**	**Setting**
Hardware Monitor			
	Fan Speed Control		Max Cooling
	Front Fan Event log		Enabled
	Rear Fan Event log		Enabled
	Real time sensors		
		ADM CPU0 Temp	xx C
		ADM CPU1 Temp	xx C
		WB Rear Temp	xx C
		WB Front Temp	xx C
		ADM CPU0 Fan	working
		ADM CPU1 Fan	working
		WB Front Fan	working
		WB Rear Fan	working
		ADM VCCP	xxx V
		ADM 5V	xxx V
		ADM 12V	xxx V
		WB 3.3V	xxx V
		WB 5V SB	xxx V
BIOS Event Log			
	View BIOS event log:		Enter
	Clear all BIOS event logs		Disabled
	Event Logging		Enabled
	Halt on EventLog		Disabled
Processors			
CPU0	CPU Type:		Intel® XEON ™
CPU0	CPU Speed:		3.06 GHz
CPU0	CPU ID:		0F29
CPU0	CPU Patch ID:		0015
CPU0	CPU FSB:		133 MHz
CPU1	CPU Type:		Intel® XEON ™
CPU1	CPU Speed:		3.06 GHz
CPU1	CPU ID:		0F29
CPU1	CPU Patch ID:		0015

	CPU FSB:		133 MHz
	Hyper-Threading:		Enabled
	MPS Version:		1.4
	L3 Cache		Enabled
Chipset			
	Memory Remapping:		Enabled
	Disable Memory Bank:		*Disabled*
	ECC Memory Checking:		Enabled
Floppy Disk Drive			
	Floppy disk controller:		Enabled
IDE Devices			
	Local Bus IDE adapter:		Both
Integrated SCSI Controller			
	Integrated SCSI:		Enabled
	Option ROM Scan:		Enabled
	Latency Timer:		Default
	Channel B Host RAID Support:		Disabled
Reset Configuration Data			NO
Integrated Network Interface			
	Integrated Network:		Enabled
	Option ROM Scan:		*Disabled*
	Latency Timer:		0040h
Integrated USB			
	Integrated USB1.1:		*Enabled*
	Integrated USB2.0:		*Enabled*
	Legacy USB Support:		*Disabled*
I/O Device Configuration			
	Serial port A:		Enabled
	Base I/O address:		3F8
	Interrupt:		IRQ 4
	Parallel port:		Enabled
	Mode:		Bi-directional
	Base I/O address:		378
	Interrupt:		IRQ 7
Integrated Audio			
	Integrated Audio:		*Disabled*

Integrated 1394			
	Integrated 1394		*Disabled*
AGP Slot (Graphics)			
	Device Vendor:		NVIDIA
	Card Vendor:		NVIDIA
	Latency Timer:		Default
	Graphics Aperture:		128 MB

PCI Devices settings for BARCO

PCI Device, Slot #1			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #2			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #3			
	Device Vendor:		13CCh
	Card Vendor:		13CCh
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #4			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #5			
	Device Vendor:		13CCh* Empty Slot**
	Card Vendor:		13CCh* Empty Slot**
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default

* first entry is valid for CRT
** second entry is valid for TFT

PCI Devices settings for Matrox

PCI Device, Slot #1			
	Device Vendor:		Matrox
	Card Vendor:		Matrox
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #2			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #3			
	Device Vendor:		3388h
	Card Vendor:		N/A (0000)
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #4			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default
PCI Device, Slot #5			
	Device Vendor:		Empty Slot
	Card Vendor:		Empty Slot
	Option ROM Scan:		*Disabled*
	Latency Timer:		Default

Security	
Parameter	**Setting**
Supervisor Password Is:	Clear[1]
Set Supervisor Password	Enter[2]
[1] Changes to Set after setting Supervisor Password [2] Password has to be set and “Password Check” has to be Setup (Security requirement)	
Clear All Passwords	Enter
User Password Is:	Clear
Set User Password	Enter
Password on boot:	*Disabled*
Start from Floppy	*Disabled*[1]
Start from IDE CD-ROM	*Disabled*[1]
Start from HDD	Enabled
Write on Flexible Disks	Unlocked
Secured Setup Configurations	NO
Fixed disk boot sector:	Normal
Setup Prompt:	*Disabled*
Cabinet Monitoring:	*Disabled*
BIOS Write Protect:	*Disabled*

[1]) Settings for delivery.

Power	
Parameter	**Setting**
Remote Power-On:	Disabled
After Power Failure:	Stay Off

Boot		
Parameter	**Parameter in Submenu**	**Setting**
Fast Boot:		Enabled
Quiet Boot:		Enabled
Display OPROM Messages:		Enabled
Default Primary Video Adapter:		AGP
Halt on Post Errors:		Enabled
NumLock:		On
F12 Boot Menu		Disabled (Enabled)
Boot Device Priority		
	CD-ROM Drive	

	- Removable Devices	
	... Legacy Floppy Drives	
	- Hard Drive	
	.. 00,AIC-7902A:	0 FUJITSU MAP3367NP
	.. 00,AIC-7902A:	1 SEAGATE ST3146807LW
	.. 00,AIC-7902A:	2 SEAGATE ST3146807LW
	Bootable Add-in Cards	
	Legacy LAN Card	

Exit		
Parameter	**Parameter in Submenu**	**Setting**
Exit Saving Changes		
Exit Discarding Changes:		
Load Setup Defaults		
Discard Changes		
Save Changes		

Reinstallation of BARCO TFT Drivers

If Display Properties show in *2nd Plug and Play Monitor* the large monitor with dotted lines, the driver needs to be reinstalled.

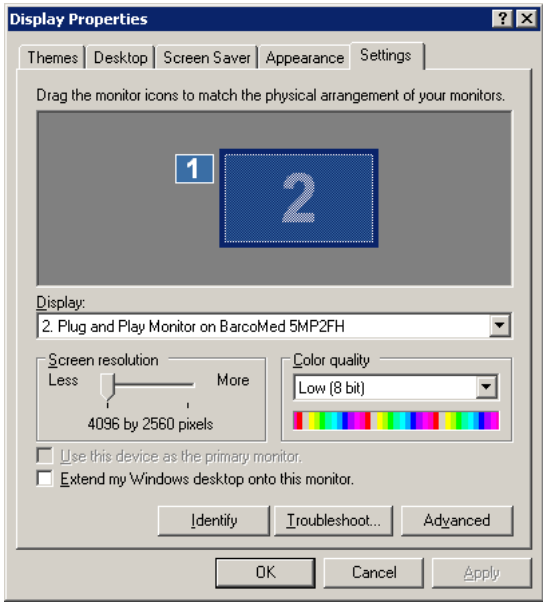
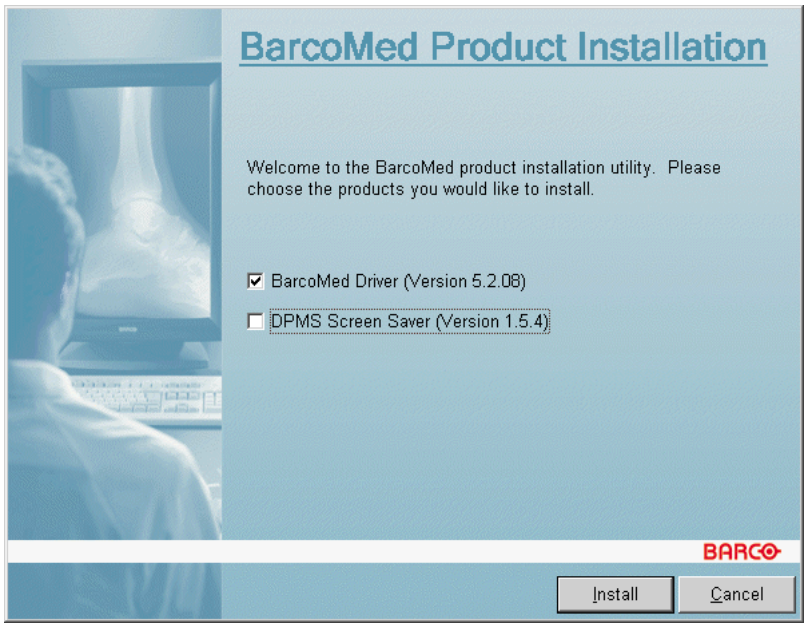
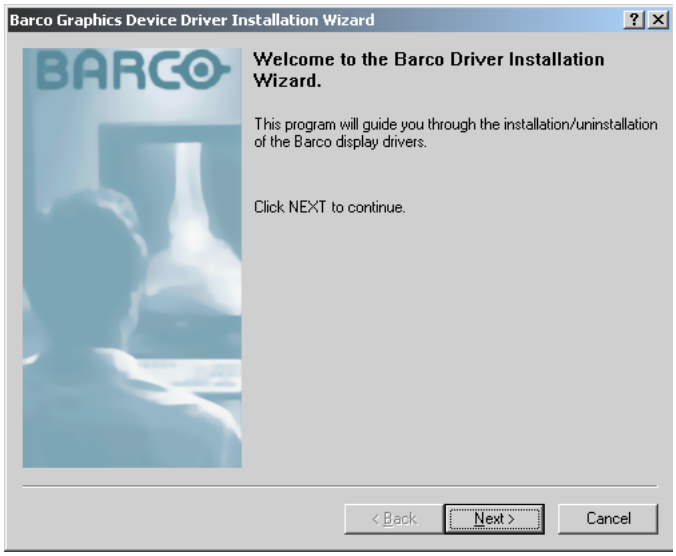


Fig. 1 Display Properties

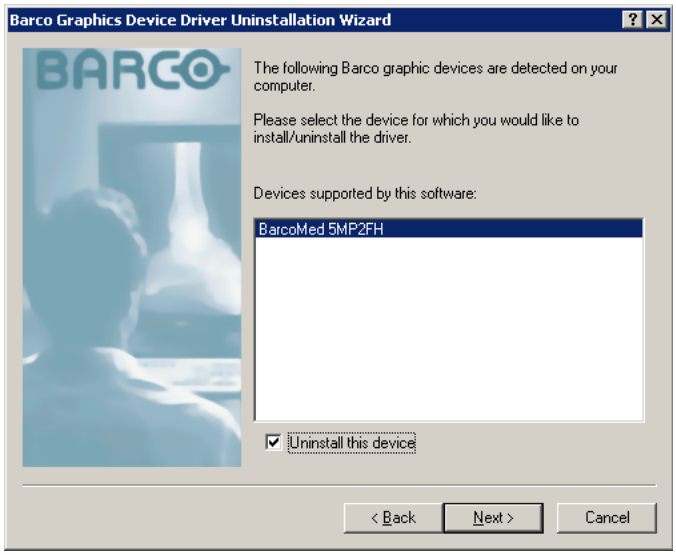
1. Run D:\BARCO_TFT_DRIVER\setup.exe to open the installation window.


BarcoMed Product Installation
Welcome to the BarcoMed product installation utility. Please choose the products you would like to install.
BarcoMed Driver (Version 5.2.08)
DPMS Screen Saver (Version 1.5.4)
BARCO
Install
Cancel

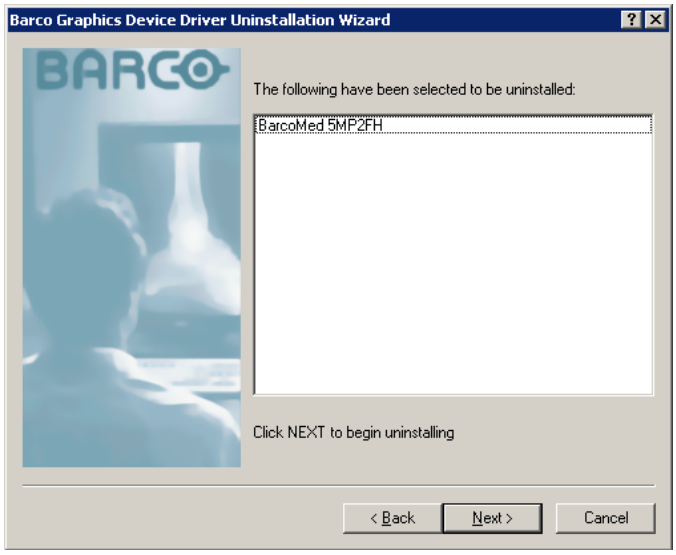
2. Deselect DPMS Screen Saver and click **Install** to open the Installation Wizard.


Barco Graphics Device Driver Installation Wizard
BARCO
Welcome to the Barco Driver Installation Wizard.
This program will guide you through the installation/uninstallation of the Barco display drivers.
Click NEXT to continue.
< Back
Next >
Cancel

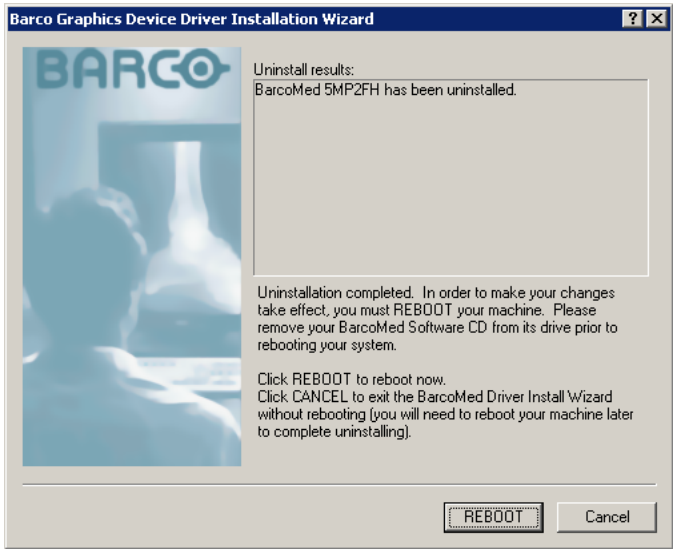
3. Click **Next** to continue. The initial setting is shown.


Barco Graphics Device Driver Uninstallation Wizard
BARCO
The following Barco graphic devices are detected on your computer.
Please select the device for which you would like to install/uninstall the driver.
Devices supported by this software:
BarcoMed 5MP2FH
Uninstall this device
< Back
Next >
Cancel

4. Check **Uninstall this device** and click **Next**.



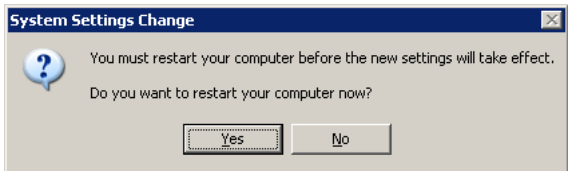
5. Click **Next** to begin Uninstalling.


Barco Graphics Device Driver Installation Wizard
BARCO
Uninstall results:
BarcoMed 5MP2FH has been uninstalled.
Uninstallation completed. In order to make your changes take effect, you must REBOOT your machine. Please remove your BarcoMed Software CD from its drive prior to rebooting your system.
Click REBOOT to reboot now.
Click CANCEL to exit the BarcoMed Driver Install Wizard without rebooting (you will need to reboot your machine later to complete uninstalling).
REBOOT
Cancel

6. After completion click **REBOOT**.

BarcoMed Product Installation
The installation of the products you selected is complete.
Select FINISH to exit.
Select BACK to go back to the previous screen.
BARCO
<< BACK
FINISH

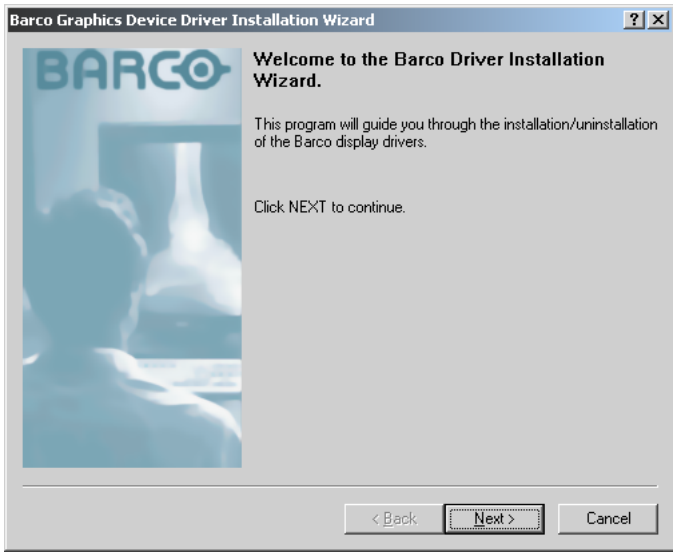
7. Select Finish to exit.


System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

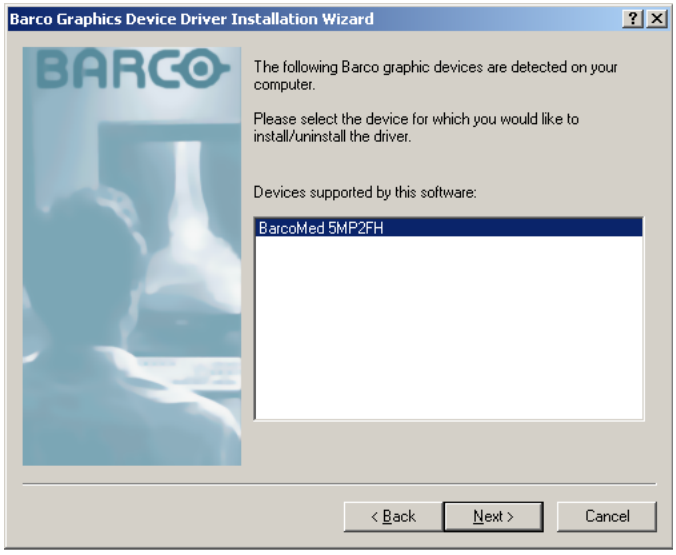
8. Confirm the message with **Yes**.
9. After reboot, login as admin and start D:\BARCO_TFT_DRIVER\setup.exe again.

BarcoMed Product Installation
Welcome to the BarcoMed product installation utility. Please choose the products you would like to install.
BarcoMed Driver (Version 5.2.08)
DPMS Screen Saver (Version 1.5.4)
BARCO
Install
Cancel

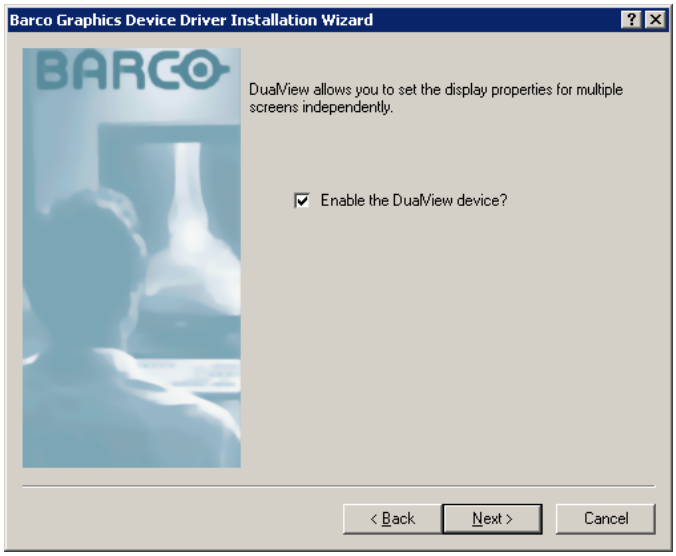
10. Click **Install** to open the Installation Wizard.


Barco Graphics Device Driver Installation Wizard
Welcome to the Barco Driver Installation Wizard.
This program will guide you through the installation/uninstallation of the Barco display drivers.
Click NEXT to continue.
< Back
Next >
Cancel

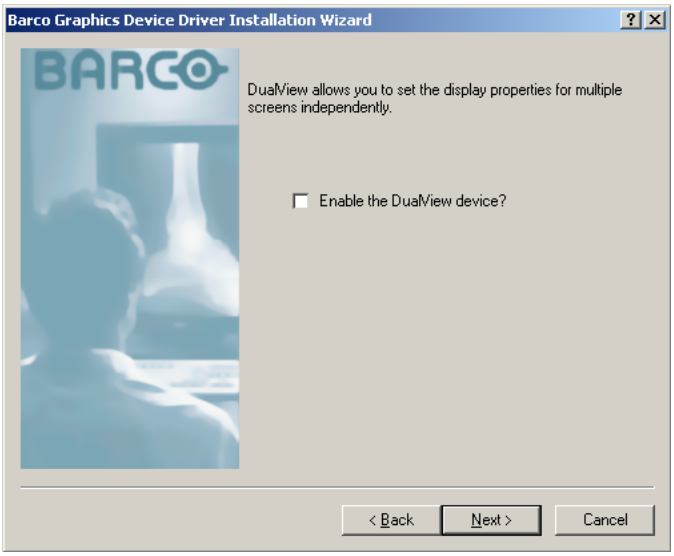
11. Click **Next** to continue. The supported devices are detected.


Barco Graphics Device Driver Installation Wizard
The following Barco graphic devices are detected on your computer.
Please select the device for which you would like to install/uninstall the driver.
Devices supported by this software:
BarcoMed 5MP2FH
< Back
Next >
Cancel

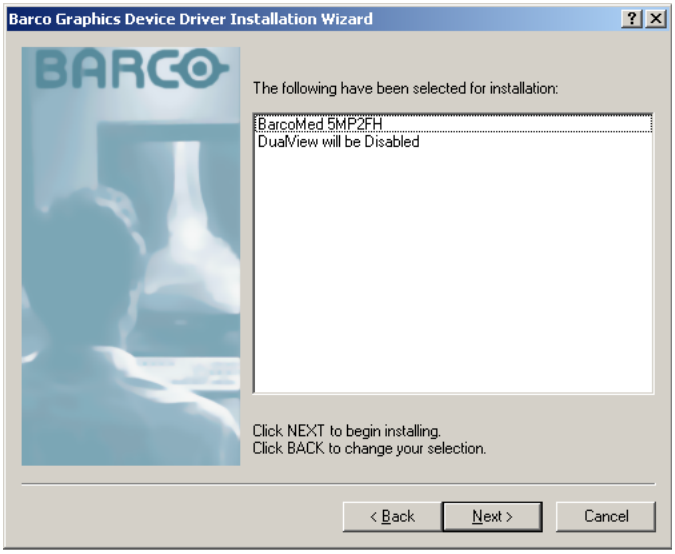
12. Click **Next** to continue. The initial properties are shown.


Barco Graphics Device Driver Installation Wizard
DualView allows you to set the display properties for multiple screens independently.
Enable the DualView device?
< Back
Next >
Cancel

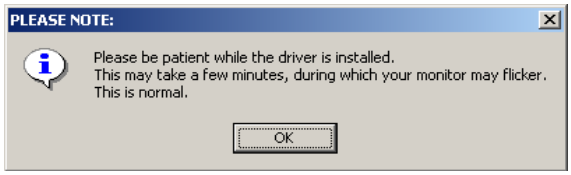
13. Uncheck **Enable the DualView device** and click **Next** to continue.


Barco Graphics Device Driver Installation Wizard
DualView allows you to set the display properties for multiple screens independently.
Enable the DualView device?
< Back
Next >
Cancel

14. The next window opens.


Barco Graphics Device Driver Installation Wizard
The following have been selected for installation:
BarcoMed 5MP2FH
DualView will be Disabled
Click NEXT to begin installing.
Click BACK to change your selection.
< Back
Next >
Cancel

15. Click **Next** to begin installing.

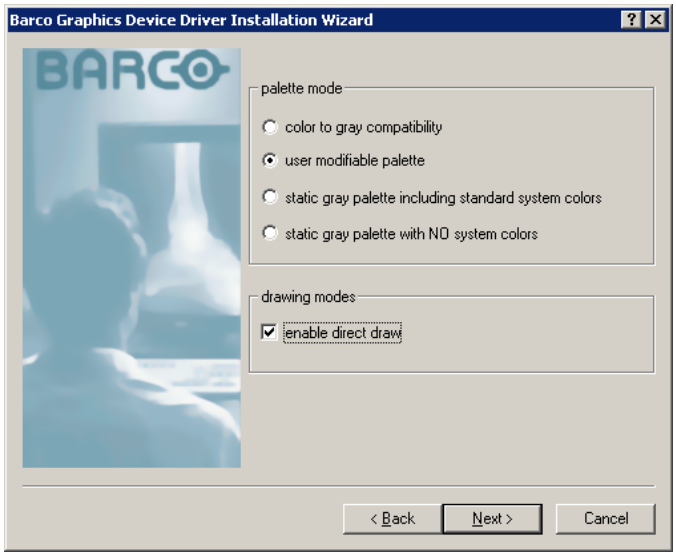

PLEASE NOTE:
Please be patient while the driver is installed.
This may take a few minutes, during which your monitor may flicker.
This is normal.
OK

16. Confirm the message with **OK**.

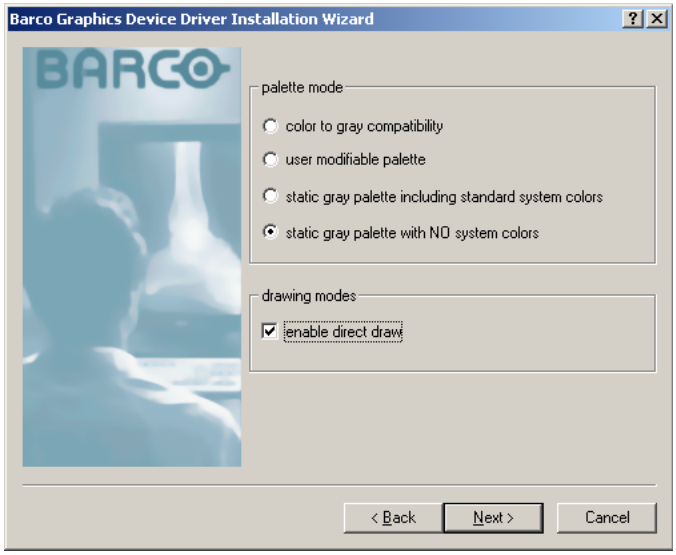
NOTE

If the installation takes more than 15 minutes, it is possible that the "Found new Hardware Wizard" tries to start in the background. Cancel the wizard. Wait for the next dialog to appear.

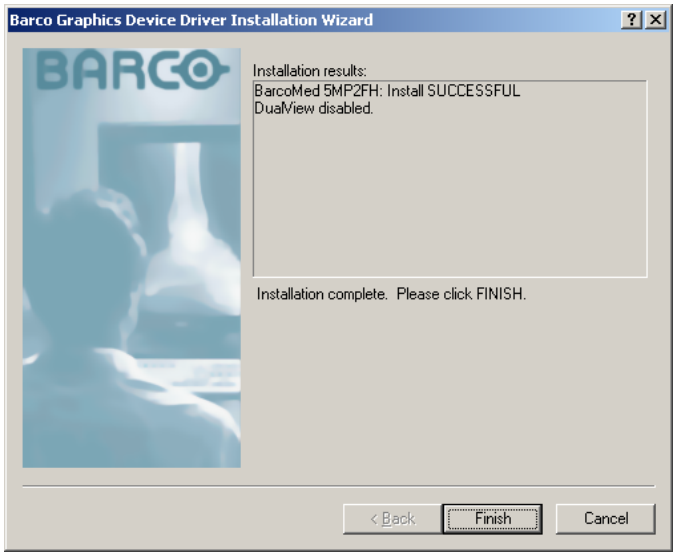
17. The next window shows initial settings.



18. Change settings as follows and click **Next** to continue.



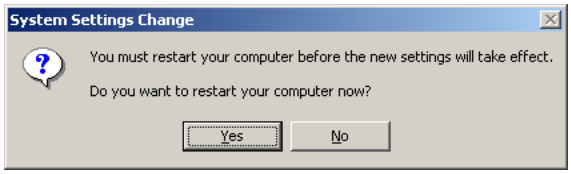
19. The next window shows the installation results.



20. Click **Finish** to finalize the installation process.

BarcoMed Product Installation
The installation of the products you selected is complete.
Select FINISH to exit.
Select BACK to go back to the previous screen.
BARCO
<< BACK
FINISH

21. Click **Finish** to exit the installation.


System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

22. Confirm the message with **Yes**.

23. After the reboot, login again as administrator. Right mouse click to open the Display Properties on the desktop. The large monitor must be enabled and display must show “2. Barco MFGD5421 on BarcoMed 5MP2FH”.

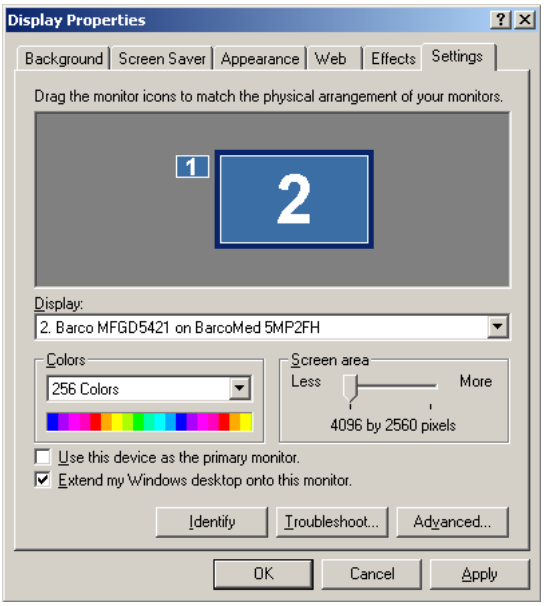


Fig. 2 Display Properties after reinstallation

24. Now move the small monitor 1 down to bottom line.

25. Leave dialog with **OK** and continue with chapter Checking Drive Assignments on page 2-5.

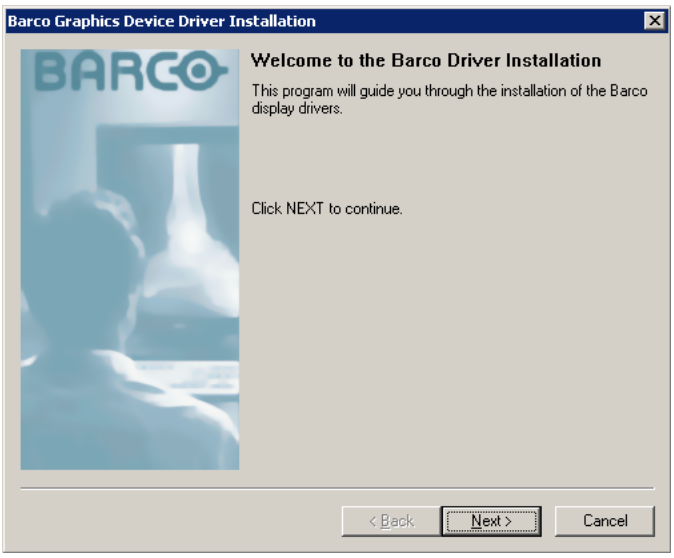
Reinstallation of BARCO CRT Drivers

If Display Properties show the two large monitors disabled, the driver needs to be reinstalled.

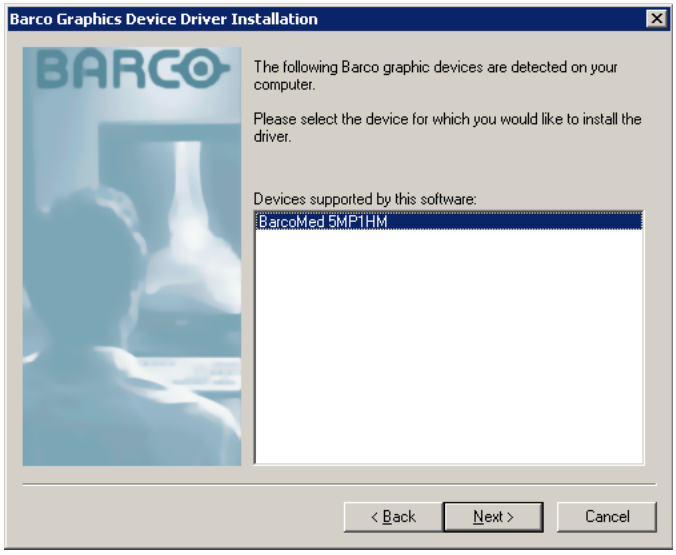
1. Run D:\BARCO_CRT_DRIVER\5.2.1\5MPM\setup.exe to open the installation window.

BarcoMed Product Installation
Welcome to the BarcoMed product installation utility. Please choose the products you would like to install.
BarcoMed Driver (Version 5.2.01)
BARCO
Install
Cancel

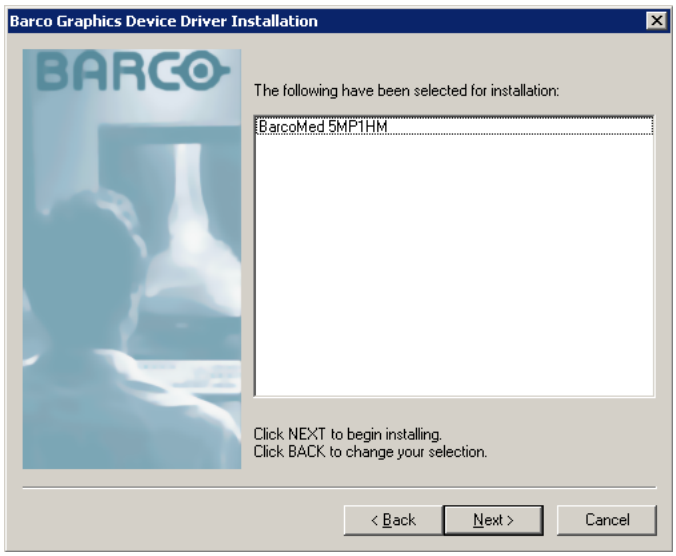
2. Click **Install** to open the Installation Wizard.


Barco Graphics Device Driver Installation
BARCO
Welcome to the Barco Driver Installation
This program will guide you through the installation of the Barco display drivers.
Click NEXT to continue.
< Back
Next >
Cancel

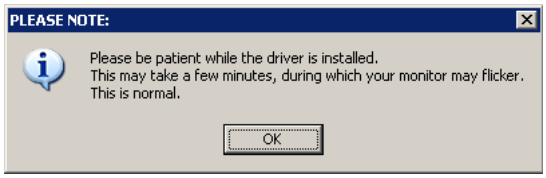
3. Click **Next** to continue. The initial setting is shown.


Barco Graphics Device Driver Installation
BARCO
The following Barco graphic devices are detected on your computer.
Please select the device for which you would like to install the driver.
Devices supported by this software:
BarcoMed 5MP1HM
< Back
Next >
Cancel

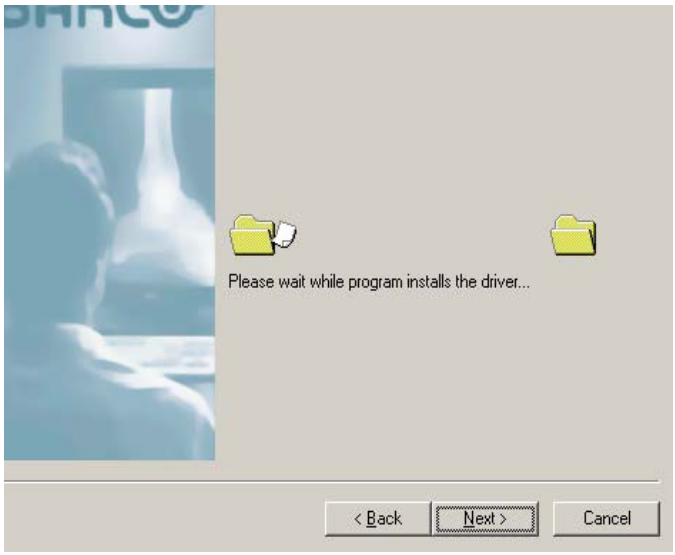
4. Click **Next** to continue.



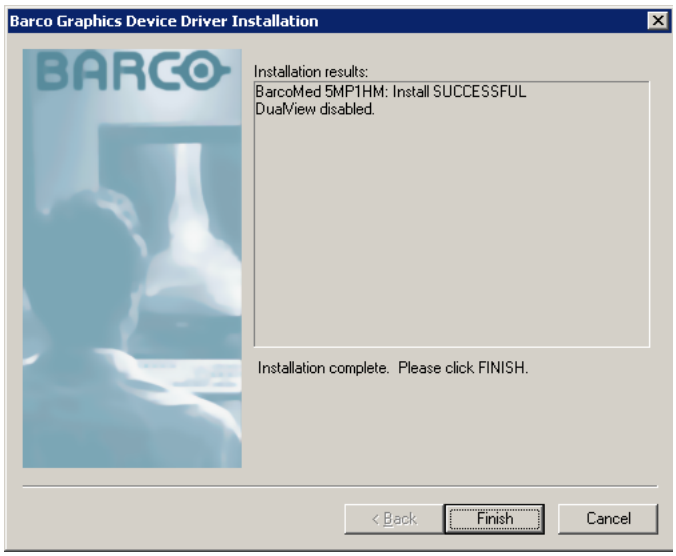
5. Click **Next** to begin installing.


PLEASE NOTE:
Please be patient while the driver is installed.
This may take a few minutes, during which your monitor may flicker.
This is normal.
OK

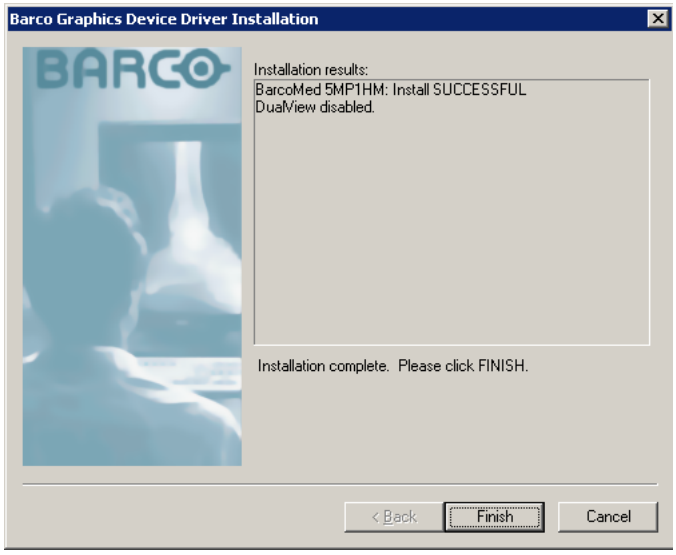
6. The driver will be installed.



7. Wait until next window is shown.



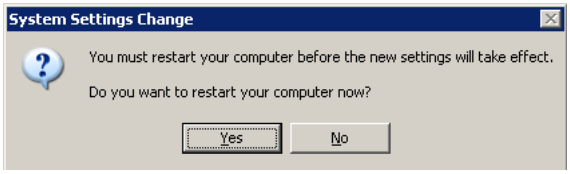
8. Click **Finish** to continue.



9. The installation of the driver is completed.

BarcoMed Product Installation
The installation of the products you selected is complete.
Select FINISH to exit.
Select BACK to go back to the previous screen.
BARCO
<< BACK
FINISH

10. Select **Finish** to exit.


System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

11. Confirm the message with **Yes**.

12. After reboot, login as administrator. With right mouse click on desktop open display properties and change to page Settings. All monitors must be enabled. Now move the small monitor 1 down to bottom line.

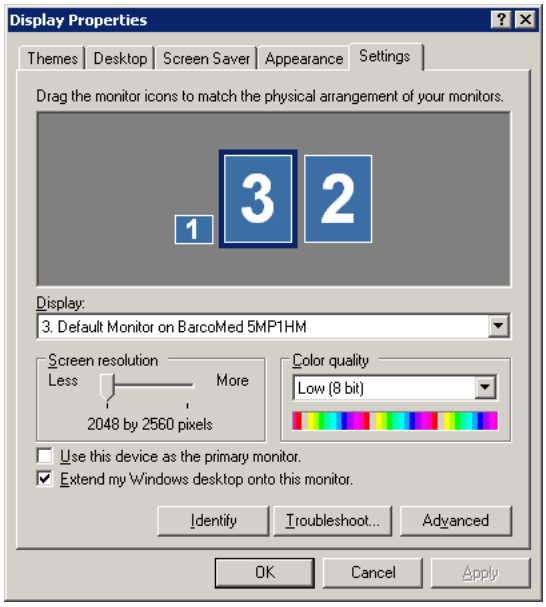


Fig. 3 Display Properties after reinstallation

13. Select monitor 3 in the display settings, right mouse click and select **Properties**. Go to page BarcoMedDriver (see Figure below) and check that Palette Mode is “Static Gray Palette with NO system colors”. Check the same for monitor 2.

14. Leave all dialogs with **OK** and continue with chapter Checking Drive Assignments on page 2-5.